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BOTTOM TRAWL SURVEY OF CRAB AND GROUNDFISH:
KODIAK ISLAND, ALASKA PENINSULA, AND EASTERN ALEUTIAN AREAS, 1994

By

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ABSTRACT

A trawl survey of Kodiak Island, Alaska Peninsula, and Eastern Aleutian areas waters was completed during June to September of 1994. A total of 396 stations were fished. Catch composition was determined and crabs and commercial groundfish were quantified. Red king crab *Paralithodes camtschaticus* and Tanner crab *Chionoecetes bairdi* stocks were found to be in a severely depressed state throughout the region with populations insufficient to support commercial fisheries. Two bays with a previous high prevalence of bitter crab syndrome were sampled for the disease. Tanner crabs in Alitak Bay were found to have a prevalence of bitter crab syndrome of 5.3%, down from 7.9% in 1993. No evidence of the disease was found in Ivanof Bay.

KEY WORDS: crab, groundfish, *Paralithodes*, *Chionoecetes*, trawl survey, Kodiak, Alaska Peninsula, Chignik, Eastern Aleutians, bitter crab syndrome

INTRODUCTION

Bottom trawl surveys were conducted by the Alaska Department of Fish and Game (ADF&G) in 1994 which focused on inshore waters around Kodiak Island, along the Alaska Peninsula from Cape Douglas to Ikutan Bay, and in the Eastern Aleutian Islands from Akun Island to Umnak Island. As defined by Commercial shellfish regulations (ADF&G 1994), this includes the Kodiak, Alaska Peninsula and Dutch Harbor management areas for king crab *Paralithodes camtschaticus* and the Kodiak, Chignik, South Peninsula, and Eastern Aleutian districts of the Westward management area for Tanner crab *Chionoecetes bairdi*. This report will use Tanner crab management units unless specifically talking about king crab.

Trawl surveys were conducted in the region as early as 1963. Early surveys targeted Long Island Bank (Reynolds 1964), Marmot Flats (McMullen 1967a), Portlock Bank (McMullen 1967b), Albatross Banks (McMullen 1968), Alitak and Kaguyak (Kingsbury 1971), and areas of Kodiak Island as well as Chignik and Pavlof Bays on the Alaska Peninsula (Colgate 1983). Because the trawling allows faster surveying and also captures smaller age classes of crabs, it has gradually replaced the crab pot as the preferred gear for crab stock assessment (Jackson 1990). The last pot survey was conducted in 1987. The 1990 survey was the first to cover the Eastern Aleutians District.

The primary objective of the survey was to assess Tanner crab and red king crab populations. A secondary objective was to document the prevalence of bitter crab syndrome in the Tanner crab stocks in Alitak and Ivanof Bays and to examine the incidental catch of groundfish. Specific objectives for the groundfish portion of the survey were to (1) determine species composition of the catch by haul and area, and (2) obtain length frequency distributions for commercially important groundfish by area. An explanation of special technical terms and abbreviations used in this report is presented in Appendix A.

In addition to these objectives, the survey accommodated several special requests. Amy Hiron of the University of Alaska-Fairbanks requested samples of pollock, Pacific cod, capelin, sandlance, herring, myctophids, and squid for use in stable isotope analyses studying the trophic interaction between seals and sea lions and their prey. Judy McDonald of the University of Alaska-Fairbanks Seward Marine Center requested samples of all sandfish caught to determine length at age, size at maturity, stomach contents, gonad indices, oil content and whole body energy. Steve Winchell at the University of Alaska-Anchorage Observer Training Program requested a wide variety of fish for use in observer training programs. Dr. Christine Ribic of the University of Wisconsin-Madison requested data on marine debris caught in the survey for comparison with types of debris caught in other areas of the United States. Forrest Blau of ADF&G Kodiak requested double tows on certain tows in Chiniak Bay in order to increase the accuracy of the king crab population estimates. These stations had been sampled with larval crab collectors five years previously and these larval should begin to become available to the trawl survey.

METHODS

Trawl Description and Procedures

The 27.4-m ADF&G research vessel *Resolution* made 400 tows between June 25 and September 29, 1994 in areas of known king and Tanner crab habitat. One tow was made at each station, except CHA, CHB, and CHJ in Chiniak Bay were sampled twice and MON in Morzhovoi Bay was retowed because of a torn net on the first attempt.

A 400-mesh eastern otter trawl net was used. This net had a 21.3-m (70-ft) long headrope with 18 floats that were 3.1 cm (8 in) in diameter. The footrope was 29.0 m (95 ft) long and lacked roller gear or tickler chain. The footrope was weighted with a 1-cm (3/8-in) chain attached every 25.4 cm (10 in) to ensure that the footrope tended bottom. The two dandylines were 45.7 m (25 fathoms) long, and each consisted of an 18.3-m (10-fathom) section of 1.5-cm (5/8-in) cable and a pair of 27.4-m (15-fathom) sections of 1.3-cm (1/2-in) cable, one attached to the top and the other to the bottom of each net wing. The Astoria "V" type doors weighed 340 kg (750 lb) each and measured 1.5 m x 2.1 m (5 ft x 7 ft). The net was constructed with 10.2-cm (4-in) stretch mesh at the mouth, 8.9-cm (3.5-in) stretch mesh in the body, and the cod end consisted of a 3.2-cm (1.25-in) stretch mesh liner. The net was designed to sweep a 12.2-m (40-ft) path.

The offshore survey areas were divided into stations approximately 9.2 km square and each inshore or bay area was divided into stations 4.6 km square. Because of land boundaries, considerable variation occurred in the size of some offshore and most bay stations. The trawl was towed on the bottom at a speed of 3.7 km per hour (2 knots) for 1.85 km at each station. This distance, the equivalent of one nautical mile, captured a suitable sample weight in most areas. The length of the tow was determined from GPS readings; corrections were estimated by the skipper for tows that were not straight. Irregular bottom type occasionally caused haul lengths to differ from 1.85 km. Catches from these tows were standardized to 1.85 km. Tow distances and related information are recorded in Appendix B. Trawl placement within stations was determined by bottom contours and the location of trawable bottom. All tows were made during daylight hours. The stations surveyed in 1994 with their areas in km² listed by stratum, section, and district are given in Appendix C.

Catches were brought aboard and total weight of the catch was determined by weighing the cod end of the trawl using an electronic crane scale accurate to the nearest 5 pounds. For some important commercial species, the entire haul was sampled. These species include sablefish *Anoplopoma fimbria*, Pacific cod *Gadus macrocephalus*, halibut *Hippoglossus stenolepis*, all rockfish *Sebastodes* and *Sebastolobus*, lingcod *Ophiodon elongatus*, weathervane scallops *Patinopecten caurinus*, Dungeness crab *Cancer magister*, Tanner crab, and king crab. One 35 kg capacity basket was used to obtain a subsample of the other species in the catch. The entire subsample was sorted, counted, and weighed. Spiny dogfish *Squalus acanthias* and giant wrymouth *Delolepis gigantea* which are not likely to be taken in a basket sample were whole haul sampled. Commercial finfish species taken in the subsample and whole haul sample and also Tanner crabs and king crabs were measured to provide a size frequency distribution for each species. Finfish were measured from snout to the fork or mid-point of the caudal fin. Reproductive success of mature Tanner and king crabs was measured by examining for the

presence of egg clutches and estimating the percent fullness to the closest 10%. Crab exhibiting signs of the bitter crab syndrome (BCS) were noted.

Hemolymph smears from thirty randomly selected Tanner crabs were prepared from each haul in Ivanof Bay on the Alaska Peninsula and Alitak Bay on the south end of Kodiak Island. These areas had previously been identified as areas of high prevalence of bitter crab syndrome (Pearson 1992). The smears were stained with a Baxter Dif-Quik stain and read under protocols established by the State Pathology Laboratory in Juneau. Thirty fields were examined under 100 power for each slide and rated either positive on a scale of 1 to 4 or negative.

King and Tanner Crab Population Estimation

Population estimates for king and Tanner crabs were derived from the trawl survey data using the *area swept* technique (Alverson 1969). Assuming that the trawl swept a path 12.2 m wide, the area swept by the trawl in a 1-km tow was $1/82.0 \text{ km}^2$. Hence, the catch per tow was converted into a density estimate, number per kilometer squared by multiplying the number caught per kilometer by 82.0. The calculated density was then multiplied by the area of the station being considered to give an estimate of that station's population size. Population estimates were computed for desired subsets of geographic or biological variables by summing the estimates from the individual stations.

RESULTS

Areas fished are shown in Figure 1 and Appendix B details the exact position recorded for each tow. The only change to station boundaries for the 1994 survey was the shifting of the boundary between stations THD and THF in the Southeast Section of the Kodiak district as recorded on the survey nautical chart archived at the ADF&G Kodiak office.

Kodiak Populations

The Northeast, Eastside, Southeast, and Southwest Sections of the Kodiak Island District were surveyed from June 25 to July 19 and 137 tows were completed (numbers 1-137, 134 stations). The Westside and North Mainland Sections were surveyed from September 19 to 29, and 63 tows were completed (numbers 338-400). The locations of the Kodiak Island tows are shown in Appendices D.1-D.8. The calculated area used in the Kodiak crab population estimates totaled 7,017.8 km^2 .

The 1994 survey captured a total of 7,161 male and 5,344 female Tanner crabs having mean widths of 94.8 mm and 69.4 mm, respectively (Figure 2). Tanner crabs were captured in 87% of all tows, their numbers ranging from 1 to 739 crabs. New-shell crabs accounted for 83% of the total male Tanner crabs captured on the Kodiak survey (Table 1).

Population estimates for Tanner crabs (Appendix E) were derived for most of the commercial fishing sections described in the ADF&G commercial shellfish regulations. Appendix E also gives the catch of each size-sex category per 1.85 km towed by station. The estimated population and the shell condition of male Tanner crabs in the Kodiak fishing sections is shown in figures 3 and 4. Each crab measured was weighted by a factor of the tow length, net width, and station size to obtain the data for these graphs.

The portion of the Kodiak District Tanner population included in the survey area was estimated to be 19.3 million animals, down significantly from the estimate of 50.0 million in 1993 (Urban 1995). The Kodiak Tanner crab population is at the lowest level estimated since district wide surveys began in 1987 with declines occurring in all Sections and in nearly all size groups (Table 2).

The population of legal Tanner crabs in the Kodiak District was estimated to be 1,095,000. The North Mainland Section had the largest population of legal-size Tanner crabs where the estimate of 318,598 crabs was 29% of the total legal crabs in the district. Due to low abundance of legal crabs and all segments of the Tanner crab population, the Kodiak Management District did not open to commercial fishing as scheduled on January 15, 1995.

Egg clutches of 2,307 mature female Tanner crabs from the Kodiak area were examined; nearly 60% exhibited clutch fullness (percent ovigerity) of 100% (Figure 5).

One hundred and nine males and 101 female red king crabs were captured. Males had a mean length of 125.3 mm and females 102.9 mm (Figure 6). The majority were mature. King crabs were captured in 13% of the tows with catches ranging from 1 animal per tow to a high of 55 king crabs in Uganik Bay.

The Kodiak red king crab population remains at historically low population levels, and the commercial fishing season for this species has remained closed since 1983. The Kodiak red king crab population was estimated to be 101,000 animals. Population estimates were derived for the main commercial fishing districts by size and sex categories (Appendix F). Fecundity, as measured by clutch fullness, is shown in Figure 5. Forty-one percent of the adult female king crabs sampled had an ovigerity of 80% or greater.

The average haul weight of fish and invertebrates from all Kodiak hauls was 640 kg/kilometer. Species composition from each Kodiak area haul is presented in Appendix B. Arrowtooth flounder *Atheresthes stomias* was the most abundant species encountered (29.9%), followed by flathead sole *Hippoglossoides elassodon* (21.2%) and pollock *Theragra chalcogramma* (16.0%). The rank and relative abundance by weight of the 20 most common species encountered in the Kodiak survey are listed in Table 3.

Length measurements of more than 13,500 fish from 27 species were taken during the Kodiak Island bottom trawl survey. Length frequency data has been combined by bays within the Kodiak area (Appendix G). The catch of selected groundfish are plotted by haul in Figures 7 and 8.

South Peninsula and Chignik Populations

The area south of the Alaska Peninsula was surveyed from August 11 through September 3 with 156 hauls being completed. There were 122 hauls in the South Peninsula District, numbers 182 to 303, with 121 being successful. Thirty-four hauls were completed in the Chignik District, numbers 304 to 337. The calculated area used in the crab population estimates were 3,461.4 and 991.9 km² in the South Peninsula and Chignik Districts, respectively (Appendix C). Appendices D.9-D.16 show the specific locations, haul numbers and trawl stations in the sampled areas.

The 1993 Alaska Peninsula bottom trawl survey captured 2,317 Tanner crabs in the South Peninsula District. New-shelled animals accounted for 69% of the male Tanner crabs captured (Table 4). The mean width of Tanner crabs in the South Peninsula District was 109.2 mm for males and 81.9 mm for females (Figure 2). Size frequency and shell condition of the estimated male Tanner crab populations in 1993 by fishing area are shown in Figures 9 and 10. The number of Tanner crabs captured in a single tow ranged from 1 to 165 animals.

The Tanner crab population in the surveyed portion of the South Peninsula District was estimated to be 2.6 million animals. Population estimates were derived for each size-sex category of crabs by fishing area (Appendix H). Peninsula Tanner crab populations continue to decline, with the overall estimated Tanner crab population decreasing by roughly half from 5.0 million in 1993 to 2.6 million animals estimated in 1994. The 1994 population is only 11% of the 1990 level with the decline occurring across all age and sex categories (Table 5). The commercial Tanner crab fishery did not open in the South Peninsula District during the 1995 season because of low legal crab abundance and high anticipated effort.

Mean width of Tanner crabs in the Chignik District was 99.6 mm for males and 83.6 mm for females (Figure 2). Size frequency and shell condition of male Tanner crabs by fishing area is shown in Figure 11. The estimated number of Tanner crabs in the Chignik District was 2.0 million (Appendix I).

The total legal Tanner crab population was estimated to be 81,000. This number represents a decrease from the 1993 level of 114,700 with the legal Tanner crab population being well below historic levels (Table 5). The Chignik District did not open to Tanner crab fishing during the 1995 commercial season because of low abundance of legal crabs in relation to anticipated effort levels.

Egg clutches of 80% fullness or greater were found in 56% of 601 adult female Tanner crabs captured in the South Peninsula District and in 39% of 241 adult females from the Chignik District (Figure 12).

The red king crab population in the Alaska Peninsula remains at historic low levels: only 44 male and 50 female red king crabs were captured with mean lengths of 104.4 mm for males and 101.1 mm for females (Figure 6). Ninety-six percent of the king crab were captured in one tow in Cold Bay. The red king crab population of the Alaska Peninsula was estimated to be 87 thousand crabs (Appendix J). As has been the case in Kodiak, the last commercial fishery was the 81/82 season.

The average haul weight of fish and invertebrates from all Alaska Peninsula hauls was 811 kg/kilometer. Species composition of each Alaska Peninsula haul is presented in Appendix B. Walleye pollock *Theragra chalcogramma* was the most abundant species encountered (22.9%), followed by flathead sole *Hippoglossoides elassodon* (22.2) and yellowfin sole *Pleuronectes aspera* (18.3%). The rank and relative abundance by weight of the 20 most common species encountered in the Alaska Peninsula survey are listed in Table 6. The catch of selected groundfish are plotted by haul in Figures 13 and 14.

Length frequencies were derived from 13,100 measurements of 22 groundfish species found in the Alaska Peninsula area (Appendices K.1-K.11).

Eastern Aleutian Populations

Forty-four tows were completed in the Eastern Aleutian District between July 31 and August 9. Tow numbers were 138 to 181. The area considered in the crab population estimates totaled 961.8 km². Appendices D.17-D.21 show the specific location and haul numbers of trawl stations in the sampled areas.

The bottom trawl survey captured 1,204 Tanner crabs, 719 males and 485 females with a mean width of 92.2 mm and 67.5 mm respectively (Figure 2). The number of Tanner crabs captured in a single tow ranged from 1 to 159 animals. The estimated number of Tanner crabs in the Eastern Aleutians district was 1.1 million animals (Appendix L). This is roughly 10% of the estimated Tanner population of the early 1990's (Table 5, Urban 1993).

The legal Tanner crabs population was estimated to be 62,986 crabs with Makushin Bay having the largest legal Tanner crab population with 38,000 animals (Appendix L). Of the 234 adult female Tanner examined, 63% had egg clutches of 80% or greater (Figure 12).

The red king crab population in the Dutch Harbor area continued at historically low levels, with the last commercial fishery being 81/82 season. The 1994 bottom trawl survey captured only two king crabs, a legal male at 163 mm carapace length and a mature female at 188 mm carapace length with a 70% full clutch. Anecdotal accounts of divers in Unalaska Bay report substantial numbers of king crabs, and several areas where king crab were captured on a 1985 king crab pot survey can not be trawled: Captain's Bay, the Anderson Bay portion of Makushin Bay, and Final Bay of Beaver Inlet.

The average haul weight of fish and invertebrates from all Eastern Aleutian Area hauls was 449.2 kg/kilometer. Species composition of each haul is presented in Appendix B. Arrowtooth flounder *Atheresthes stomias* was the most abundant species encountered (25.5%), followed by pollock *Theragra chalcogramma* (22.9%) and flathead sole *Hippoglossoides elassodon* (13.1%). The rank and relative abundance by weight of the 20 most common species encountered in the Eastern Aleutians are listed in Table 7. The catch of selected groundfish are plotted by haul in Figure 15.

Length frequencies were derived from 3,950 measurements of 19 groundfish species found in the Eastern Aleutian area (Appendices M.1-M.5).

Prevalence of Bitter Crab Syndrome

Blood smears were sampled from 367 Tanner crabs in Alitak Bay and 38 Tanner crabs in Ivanof Bay. Table 8 summarizes the results of this testing for 1991 to 1994. In Alitak Bay, the 1994 BCS prevalence of 5.6% is down from previous years of 7.9% in 1993 and 18.1% in 1992. As in 1993, the Ivanof Bay samples showed no sign of BCS infection, which is down from the 11.3% prevalence seen in 1992.

In the sampled crabs, 16 of 17 crabs judged to be suspect of bitter crab syndrome by visual inspection had blood smears containing the bitter crab dinoflagellate. This indicates trained observers can be very accurate in identifying crab with gross external symptoms of the disease. Conversely, 40.7% of the crab whose blood smears contained BCS cells showed no external symptoms of the disease.

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Table 1. Numbers of male king and Tanner crab by shell age and cohort captured during the Kodiak area crab trawl survey, 1994.

Cohort	Definition	Shell Condition			
		Soft shell	New shell	Old shell	Very old
<i>King Crab</i>					
Prerecruit IV	<95mm	0	44	0	0
Prerecruit III	95-112mm	0	6	0	0
Prerecruit II	113-130mm	0	9	0	0
Prerecruit I	>130mm and sublegal	0	11	0	0
Recruit	<164mm and legal newshell	0	8		
Postrecruit	>163mm or legal and not newshell	0	20	9	2
<i>Tanner Crab</i>					
Prerecruit IV	<70mm	142	1,963	3	0
Prerecruit III	70-91mm	79	1,381	18	2
Prerecruit II	92-114mm	60	716	121	41
Prerecruit I	>114mm and sublegal	35	899	508	234
Recruit	<165mm and legal newshell	5	613		
Postrecruit	>164mm or legal and not newshell	0	55	228	58

Table 2. Tanner crab population estimates from trawl surveys in the Kodiak area, 1987-1994.

Fishing Section	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Male	Total Crab
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165mm	>164mm			
Northeast													
1987	461,089	1,135,422	1,596,511	352,860	248,415	326,506	493,916	101,484	197,865	33,038	332,387	1,754,082	3,350,594
1988	2,643,594	674,490	3,318,084	2,495,836	395,350	545,140	685,327	384,565	23,104	20,977	428,647	4,550,300	7,868,384
1989	5,481,792	5,654,266	11,136,058	5,127,986	1,546,105	2,165,369	2,319,049	1,409,193	133,905	269,859	1,812,957	12,971,466	24,107,524
1990	1,812,656	3,140,834	4,953,490	1,446,757	1,482,180	1,142,711	1,024,535	510,407	93,031	101,879	705,317	5,801,498	10,754,989
1991	4,385,849	2,055,075	6,440,924	3,651,597	1,501,747	1,330,396	1,080,017	424,636	25,367	52,117	502,121	8,065,877	14,506,802
1992	2,013,074	1,365,357	3,378,431	1,586,874	1,225,453	929,682	793,749	209,337	15,516	7,070	231,922	4,767,680	8,146,111
1993	2,273,819	1,116,830	3,390,650	2,224,926	435,614	581,625	637,663	263,095	31,759	16,787	311,640	4,191,468	7,582,117
1994	602,256	1,227,010	1,833,265	627,897	170,908	255,845	455,371	102,589	98,082	2,401	203,072	1,713,093	3,546,358
Eastside													
1987	5,476,413	3,930,451	9,406,862	5,750,053	609,468	514,257	1,202,144	149,925	299,091	89,925	538,941	8,614,863	18,021,728
1988	2,083,954	820,032	2,903,986	1,616,718	443,776	627,028	732,705	298,165	100,786	1,914	400,864	3,821,090	6,725,077
1989	2,393,419	3,821,312	6,214,731	2,029,181	1,567,590	1,640,007	1,285,700	799,441	270,769	29,333	1,099,543	7,622,201	13,836,752
1990	1,547,033	10,045,389	11,592,420	1,299,698	679,016	2,019,193	4,059,072	788,369	162,670	60,418	1,011,457	9,068,434	20,660,860
1991	1,490,845	3,677,868	5,168,713	1,207,670	289,090	655,547	2,669,044	3,016,121	494,482	38,622	3,549,225	8,370,576	13,539,289
1992	1,292,574	1,963,566	3,456,140	1,612,556	328,625	472,486	1,584,166	460,988	280,962	64,984	806,935	4,804,768	8,260,908
1993	1,723,641	1,504,592	3,228,232	1,362,714	252,485	406,367	1,003,469	108,462	382,993	18,760	510,315	3,535,350	6,763,582
1994	1,768,539	571,130	2,339,670	1,311,715	706,286	465,077	572,892	28,420	141,209	2,837	172,467	3,228,438	5,568,108
Southeast													
1987	2,379,119	894,205	3,273,324	2,044,847	413,335	337,537	875,142	480,004	88,816	2,841	571,660	4,242,522	7,515,845
1988	243,200	314,486	557,686	188,394	221,880	607,570	1,185,633	777,880	129,593	50,773	958,246	3,161,723	3,719,408
1989	922,092	424,847	1,346,939	694,841	140,444	246,215	564,215	175,593	70,553	9,739	255,885	1,901,600	3,248,539
1990	1,148,017	781,102	1,929,119	1,086,357	131,469	299,245	651,302	383,859	117,252	5,970	507,081	2,675,454	4,604,574
1991	4,650,523	919,633	5,570,157	4,448,179	425,927	270,594	367,736	173,532	37,162	7,382	218,077	5,730,513	11,300,669
1992	2,156,307	1,322,229	3,478,535	1,648,095	688,608	443,849	587,767	33,246	139,404	10,076	182,726	3,551,045	7,029,580
1993	3,893,506	563,806	4,457,311	3,625,310	248,343	430,013	403,299	27,357	111,011	8,453	146,821	4,853,786	9,311,097
1994	112,692	222,890	335,582	88,247	28,663	87,918	474,048	108,208	54,865	4,252	167,324	846,201	1,181,783
Southwest													
1987	2,368,774	590,671	2,959,445	1,990,338	45,752	727,616	1,799,111	638,664	107,127	44,416	790,207	5,353,024	8,312,469
1988	191,219	225,135	416,354	168,051	16,405	63,339	591,313	1,370,943	61,725	76,170	1,508,838	2,347,945	2,764,299
1989	2,716,302	220,553	2,936,855	2,510,149	202,807	189,372	443,446	281,673	118,617	85,688	485,978	3,831,752	6,768,607
1990	3,527,315	1,383,437	4,910,753	2,635,176	1,259,988	709,183	704,467	53,127	59,552	11,567	124,247	5,433,060	10,343,812
1991	1,248,463	262,105	1,510,568	1,020,587	219,284	403,480	553,335	97,159	33,952	3,185	134,296	2,330,981	3,841,548
1992	461,617	212,484	674,101	455,293	153,648	320,046	236,226	296,449	58,330	5,803	360,581	1,525,794	2,199,895
1993	6,656,829	244,881	6,901,710	6,173,566	505,031	182,384	392,985	251,151	69,760	13,352	334,263	7,588,229	14,489,940
1994	205,702	120,561	326,263	131,884	70,630	60,597	145,516	129,013	23,087	7,429	159,529	568,156	894,418
Westside													
1987	2,541,394	1,526,443	4,067,836	1,243,848	2,401,608	1,149,549	1,302,877	835,177	46,421	50,537	932,134	7,030,016	11,097,852
1988	3,232,321	1,125,086	4,357,407	2,903,179	160,149	477,223	606,182	243,134	45,969	21,869	310,973	4,457,707	8,815,114
1989	8,655,122	1,185,882	9,841,004	7,125,499	1,387,997	651,689	739,127	373,683	71,456	32,282	477,421	10,381,733	20,222,737
1990	1,539,037	4,037,828	5,576,865	725,246	1,325,090	807,624	874,879	209,757	98,770	42,662	351,190	4,084,028	9,660,893
1991	188,063	564,038	752,101	130,079	138,641	480,619	440,221	35,631	22,320	4,335	62,286	1,251,846	2,003,947
1992	168,907	419,822	588,729	129,031	171,209	214,118	299,796	114,508	46,032	5,615	166,155	980,309	1,569,038
1993	397,675	587,678	985,353	266,121	161,469	153,721	292,347	56,918	114,132	8,001	179,051	1,052,708	2,038,062
1994	159,998	248,767	408,765	108,531	113,242	74,755	90,262	31,733	42,415	0	74,149	460,939	869,704

-Continued-

Table 2. (page 2 of 2)

Fishing Section	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Male	Total Crab
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165mm	>164mm			
North Mainland													
1987	668,509	2,267,682	2,936,190	622,331	926,344	2,693,481	2,761,800	498,657	101,469	39,646	639,772	7,643,728	10,579,918
1988	3,055,286	861,060	3,916,347	2,592,371	131,758	424,485	1,227,352	922,762	82,755	32,415	1,037,933	5,413,899	9,330,245
1989	4,557,775	1,263,559	5,821,334	4,670,560	251,950	289,575	1,150,687	417,410	105,261	165,459	688,130	7,050,902	12,872,236
1990	7,046,141	3,301,573	10,347,713	5,970,049	2,313,040	806,067	1,470,971	148,847	115,216	36,289	300,352	10,860,480	21,208,194
1991	760,801	1,128,212	1,889,012	605,036	606,408	537,513	948,691	61,666	121,712	4,747	188,125	2,885,773	4,774,785
1992	2,379,002	898,078	3,277,079	2,279,142	224,065	392,813	753,649	108,416	70,078	14,613	193,107	3,842,776	7,119,856
1993	3,812,333	1,022,423	4,834,756	3,215,642	150,137	418,016	820,819	157,189	146,364	36,468	340,021	4,944,665	9,779,421
1994	3,023,459	536,322	3,559,781	2,228,789	554,325	232,786	360,218	143,776	116,170	58,652	318,598	3,684,716	7,244,497
South Mainland													
1987	11,393	64,558	75,950	37,975	11,393	37,975	3,798	0	0	0	0	91,140	167,090
GRAND TOTAL													
1987	13,906,688	10,409,430	24,316,116	12,042,252	4,656,314	5,786,921	8,438,786	2,703,910	840,789	260,402	3,805,102	34,729,372	59,045,496
1988	11,449,574	4,020,290	15,469,864	9,964,549	1,369,319	2,744,783	5,028,512	3,997,449	443,932	204,119	4,645,500	23,752,662	39,222,528
1989	24,726,502	12,570,419	37,296,921	22,158,216	5,096,893	5,182,227	6,502,224	3,456,993	770,561	592,360	4,819,914	43,759,474	81,056,395
1990	16,620,199	22,690,162	39,310,360	13,163,283	7,190,782	5,784,022	8,785,225	2,094,366	646,492	258,785	2,999,643	37,922,952	77,233,320
1991	12,724,544	8,606,932	21,331,475	11,063,149	3,181,096	3,678,149	6,059,042	3,808,745	734,995	110,388	4,654,129	28,635,565	49,967,040
1992	8,671,479	6,181,536	14,853,015	7,710,991	2,791,607	2,772,995	4,255,353	1,222,944	1,220,642	108,160	2,551,746	20,082,693	34,935,708
1993	18,757,803	5,040,209	23,798,012	16,868,279	1,753,109	2,172,126	3,550,581	864,271	856,019	101,822	1,822,112	26,166,206	49,964,219
1994	5,876,645	2,926,680	8,803,325	4,497,063	1,634,055	1,176,978	2,098,307	543,740	475,828	75,571	1,095,139	10,501,543	19,304,868

Table 3. Relative abundance by weight of the 20 most encountered species of groundfish and invertebrates captured from a trawl survey of Kodiak Island waters, 1994.

Species Name	% of Catch by Weight
Arrowtooth flounder (<i>Atheresthes stomias</i>)	29.9
Flathead sole (<i>Hippoglossoides elassodon</i>)	21.2
Pollock (<i>Theragra chalcogramma</i>)	16.0
Yellowfin sole (<i>Pleuronectes aspera</i>)	4.5
Pacific halibut (<i>Hippoglossus stenolepis</i>)	4.1
Skates (<i>Raja & Bathyraja</i>)	3.6
Butter sole (<i>Isopsetta isolepis</i>)	2.7
Starfish (Subclass: Asteroidea)	2.7
Pacific cod (<i>Gadus macrocephalus</i>)	2.5
Tanner crab (<i>Chionoecetes bairdi</i>)	1.6
Sculpin (Family: Cottidae)	1.4
Rock sole (<i>Lepidopsetta bilineata</i>)	1.4
Dover sole (<i>Microstomus pacificus</i>)	1.2
Starry flounder (<i>Platichthys stellatus</i>)	0.9
Anemone (Order: Actinaria)	0.7
Rex sole (<i>Glyptocephalus zachirus</i>)	0.6
Sea urchin (Class: Echinoidea)	0.6
Alaska plaice (<i>Pleuronectes quadrituberculatus</i>)	0.5
English sole (<i>Parophrys vetulus</i>)	0.4
snails (Class Gastropoda)	0.4
All other species	3.1

Table 4. Number of male king and Tanner crab by shell age and cohort captured during the Alaska Peninsula trawl survey, 1994.

Cohort	Definition	Shell Condition			
		Soft Shell	New Shell	Old Shell	Very Old
<i>King Crab</i>					
Prerecruit IV	<79mm	0	2	0	0
Prerecruit III	79-95mm	0	15	0	0
Prerecruit II	96-115mm	0	16	0	0
Prerecruit I	>116mm and sublegal	0	9	0	0
Recruit	<152mm and legal newshell	0	0	-	-
Postrecruit	>151mm or legal and not newshell	0	0	2	0
<i>Tanner Crab</i> Chignik District					
Prerecruit IV	<70mm	5	167	1	0
Prerecruit III	70-91mm	0	1,204	3	0
Prerecruit II	92-114mm	0	1,106	8	4
Prerecruit I	>114mm and sublegal	0	191	23	7
Recruit	<165mm and legal newshell	0	42	-	-
Postrecruit	>164mm or legal and not newshell	0	0	15	25
<i>Tanner Crab</i> South Peninsula District					
Prerecruit IV	<70mm	2	159	0	0
Prerecruit III	70-91mm	0	176	8	3
Prerecruit II	92-114mm	1	234	57	55
Prerecruit I	>114mm and sublegal	0	274	87	148
Recruit	<165mm and legal newshell	0	150	-	-
Postrecruit	>164mm or legal and not newshell	0	3	37	58

Table 5. Tanner crab population estimates from trawl surveys in the South Peninsula, Chignik Districts, and Eastern Aleutian Districts, 1988-1994.

Area and Year	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Male	Total Crab
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
SOUTH PENINSULA DISTRICT													
Sanak													
1989	1,007,287	116,393	1,123,680	1,087,034	23,924	31,519	64,368	6,836	0	0	6,836	1,213,681	2,337,361
1990	544,525	102,533	647,058	412,210	80,760	52,532	22,785	0	0	0	0	568,287	1,215,345
1991	448,105	27,532	475,637	461,396	30,380	34,178	0	0	0	0	0	525,954	1,001,591
1992	344,623	41,013	385,636	270,952	42,912	45,760	3,798	0	0	0	0	363,423	749,057
1993	337,216	19,132	356,348	260,565	30,577	37,408	9,998	0	0	0	0	338,549	694,897
1994	87,847	69,011	156,858	112,055	13,413	18,801	19,823	0	0	0	0	164,091	320,950
Ikatan/Morzhovoi													
1988	473,143	393,460	866,603	256,652	287,299	245,461	221,888	96,780	30,848	17,019	144,647	1,155,947	2,022,550
1989	3,840,620	1,173,058	5,013,678	3,214,760	1,373,096	440,767	133,655	42,427	4,949	0	47,376	5,209,653	10,223,332
1990	2,137,939	1,047,225	3,185,164	1,503,423	663,670	551,967	197,960	25,633	25,542	1,489	52,664	2,969,683	6,154,847
1991	1,657,718	478,548	2,136,266	1,318,755	426,210	209,931	57,608	15,555	4,667	0	20,222	2,032,725	4,168,991
1992	364,690	886,270	1,250,960	193,851	455,385	278,843	207,281	39,945	21,471	949	58,366	1,193,726	2,444,685
1993	72,434	544,697	617,131	18,974	160,368	414,318	368,297	62,370	63,859	949	127,178	1,089,136	1,706,267
1994	43,583	284,888	328,470	9,922	62,598	132,024	214,544	7,299	49,193	0	56,492	475,579	804,049
Cold Bay/Belkofski													
1988	263,424	311,506	574,930	133,813	222,565	234,339	220,235	88,143	32,649	8,520	129,312	940,264	1,515,195
1989	465,622	55,256	520,877	408,728	54,811	29,720	16,589	3,881	488	0	4,369	514,217	1,035,094
1990	1,819,773	553,714	2,373,488	1,536,289	526,568	276,381	224,763	88,021	51,348	4,548	143,918	2,707,919	5,081,407
1991	601,571	588,961	1,190,532	668,699	135,225	223,859	374,770	74,553	110,621	161	185,335	1,587,888	2,778,420
1992	177,787	174,384	352,171	95,544	110,096	97,452	142,607	39,898	39,104	1,721	80,723	526,421	878,592
1993	100,302	269,850	370,152	68,373	87,201	156,298	137,850	35,907	18,608	434	54,949	504,672	874,824
1994	96,033	220,312	316,345	28,880	54,379	64,115	75,642	27,345	10,266	1,258	38,869	261,884	578,229
Pavlof/Volcano													
1988	438,378	879,351	1,317,728	351,825	213,743	527,769	473,115	211,734	88,807	79,839	378,380	1,944,832	3,262,561
1989	1,193,787	1,898,744	3,092,532	752,840	448,297	374,030	447,775	121,787	80,943	17,669	220,399	2,243,341	5,335,871
1990	1,138,250	2,110,361	3,248,611	823,545	574,445	631,345	345,196	62,129	125,646	18,957	206,732	2,581,264	5,829,876
1991	440,000	549,233	989,233	398,020	76,496	276,907	273,133	38,822	89,006	3,039	130,866	1,155,422	2,144,655
1992	206,620	387,633	594,253	96,109	162,427	150,644	164,303	32,774	52,064	0	84,838	658,321	1,252,574
1993	115,627	201,551	317,178	71,677	168,723	494,229	230,544	44,414	27,416	1,925	73,755	1,038,929	1,356,106
1994	40,819	123,378	164,198	25,438	50,672	91,918	143,134	54,379	28,337	0	82,717	393,879	558,076
Beaver/Balboa/Unga Strait													
1988	123,769	76,533	200,302	106,816	66,274	50,497	22,020	5,399	10,364	0	15,763	261,370	461,672
1989	129,353	247,345	376,698	141,019	56,566	48,228	30,418	0	6,059	0	6,059	282,291	658,989
1990	373,873	479,216	853,088	384,768	40,079	155,649	89,422	16,441	6,615	0	23,057	692,974	1,546,062
1991	337,522	188,765	526,287	313,050	36,940	56,286	51,489	5,058	1,127	0	6,185	463,950	990,238
1992	73,138	128,905	202,043	80,582	30,326	47,470	20,585	564	2,026	0	2,590	181,554	383,597
1993	9,322	43,753	53,075	16,876	7,062	28,751	29,838	3,164	4,361	0	7,525	90,052	143,128
1994	10,118	29,294	39,412	9,240	4,361	11,329	25,120	2,254	5,938	0	8,192	58,243	97,655
West Nagai													
1989	263,853	202,990	466,843	307,542	136,756	71,670	23,766	2,101	5,383	0	7,484	547,219	1,014,062
1990	223,997	36,745	260,741	228,844	17,172	17,328	5,913	0	908	0	908	270,166	530,907
1991	212,474	24,805	273,280	236,403	6,002	6,002	18,007	3,813	0	0	3,813	270,227	507,507
1992	24,726	33,234	57,961	13,306	8,516	19,137	8,255	0	3,165	0	3,165	52,379	110,340
1993	19,405	4,835	24,240	16,141	9,946	74,494	14,797	908	0	0	908	116,286	140,526
1994	20,348	24,860	45,208	8,615	24,858	29,968	27,774	8,468	0	0	8,468	99,682	144,890
Stepovak													
1989	369,775	129,844	499,619	327,572	19,700	18,217	4,025	0	0	0	0	369,515	869,133
1990	891,103	138,654	1,029,758	992,870	7,256	28,929	19,636	8,266	6,158	0	14,424	1,063,116	2,092,874
1991	225,164	24,116	249,280	273,356	8,175	30,978	13,539	0	8,171	0	8,171	334,219	583,500

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Table 5. (page 2 of 3)

Area and Year	Juvenile	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Male	Total Crab
		Adult	Total		<70	70-91	92-114	>114		<165	>164			
Stepovak (cont.)														
1992	286,231	26,900	313,131		255,298	7,249	31,206	7,802	2,013	0	0	2,013	303,568	616,699
1993	27,147	4,177	31,324		35,652	2,013	5,092	4,025	0	3,079	0	3,079	49,861	81,185
1994	30,462	2,013	32,474		32,303	0	0	0	0	0	0	0	32,303	64,777
SOUTH PENINSULA TOTALS														
1988	1,298,714	1,660,850	2,959,563		849,106	789,881	1,058,066	937,258	402,056	162,668	105,378	668,108	4,302,413	7,261,978
1989	7,270,297	3,823,630	11,093,927		6,239,495	2,113,150	1,014,151	720,596	177,032	97,822	17,669	292,523	10,379,917	21,473,842
1990	7,129,460	4,468,448	11,597,908		5,881,949	1,909,950	1,714,131	905,675	200,490	216,217	24,994	441,703	10,853,409	22,451,318
1991	3,922,555	1,881,961	5,804,515		3,669,679	719,429	838,141	788,545	137,801	213,591	3,200	354,592	6,370,386	12,174,901
1992	1,477,816	1,678,339	3,156,155		1,005,643	816,910	670,511	554,631	111,193	235,659	2,671	349,523	3,397,218	6,553,373
1993	681,454	1,087,994	1,769,448		488,259	465,890	1,210,591	795,350	146,764	117,323	3,308	267,395	3,227,485	4,996,933
1994	329,210	753,755	1,082,965		226,452	210,281	348,155	506,035	99,746	93,734	1,258	194,738	1,485,661	2,568,626
CHIGNIK DISTRICT														
Ivanof														
1989	502,222	266,214	768,436		451,363	139,929	782,548	739,638	336,765	12,413	12,413	361,592	2,475,069	3,243,506
1990	883,810	32,971	916,782		1,040,228	14,699	108,905	250,741	108,961	0	0	108,961	1,523,534	2,440,316
1991	360,136	1,476	361,612		349,152	0	0	1,723	7,136	0	738	7,874	358,749	720,361
1992	32,735	2,215	34,950		37,240	1,969	984	5,028	4,119	1,282	738	6,139	51,360	86,310
1993	54,793	1,625	56,418		27,817	41,776	9,880	2,751	0	395	0	395	82,618	139,036
1994	44,186	12,094	56,280		13,569	22,612	12,866	3,832	984	246	0	1,230	54,110	110,390
Mitrofania														
1989	193,422	510,311	703,733		201,538	155,170	637,889	315,908	42,526	17,719	21,263	81,508	1,392,013	2,095,746
1990	280,518	49,611	330,129		226,831	147,864	178,760	224,330	81,523	22,790	6,582	110,895	888,680	1,218,809
1991	491,176	51,907	543,084		469,640	113,946	89,887	96,212	87,350	5,064	2,532	94,947	864,632	1,407,715
1992	290,955	6,875	297,830		219,423	36,769	6,451	14,620	17,153	0	2,532	19,685	296,948	594,778
1993	133,718	17,870	151,587		76,188	68,542	37,635	15,337	18,459	9,047	653	28,159	225,862	377,449
1994	48,370	8,682	57,051		32,122	19,976	14,992	6,150	13,384	2,532	0	15,917	89,157	146,208
Chignik														
1989	672,315	450,163	1,122,479		660,618	89,843	81,938	174,032	40,159	13,229	0	53,388	1,059,819	2,182,297
1990	1,650,408	423,973	2,074,381		1,330,223	112,046	133,699	445,000	83,477	77,931	1,387	162,794	2,183,762	4,258,144
1991	1,119,262	486,770	1,606,032		1,065,392	98,759	48,866	131,640	67,386	66,421	0	133,807	1,478,465	3,084,496
1992	1,150,083	323,334	1,473,418		1,307,665	91,362	69,122	34,071	0	14,828	0	14,828	1,517,048	2,990,466
1993	823,018	216,258	1,039,275		790,570	467,458	307,173	186,929	22,190	60,687	3,285	86,162	1,838,292	2,877,568
1994	235,448	135,863	371,311		72,104	520,864	514,182	143,525	28,567	32,314	949	61,831	1,312,506	1,683,817
Kujulik														
1989	83,550	13,089	96,639		78,148	722	9,150	11,386	931	0	0	931	100,388	197,026
1990	394,255	122,744	517,000		380,715	2,193	10,486	10,206	2,525	0	0	2,525	406,125	923,125
1991	8,256	949	9,205		14,470	0	0	0	0	0	0	0	14,470	23,675
1992	108,457	18,988	127,444		129,874	760	760	3,038	0	1,519	0	1,519	135,950	263,395
1993	107,646	16,184	123,831		100,150	81,074	29,658	1,367	0	0	0	0	212,250	336,080
1994	7,736	3,190	10,926		9,141	7,322	4,952	6,471	0	2,279	0	2,279	30,164	41,090
CHIGNIK DISTRICT TOTALS														
1989	1,451,509	1,239,777	2,691,287		1,391,667	385,664	1,511,525	1,240,964	420,381	43,361	33,676	497,419	5,027,289	7,718,575
1990	3,208,991	629,299	3,838,292		2,977,997	276,802	431,850	930,277	276,486	100,721	6,582	385,175	5,002,101	8,840,394
1991	1,978,830	541,103	2,519,932		1,898,654	212,706	138,753	229,574	161,872	71,486	3,270	236,628	2,716,316	5,236,248
1992	1,582,231	351,412	1,933,642		1,694,201	130,859	77,317	56,757	21,271	35,259	3,270	59,801	2,018,936	3,952,578
1993	1,119,174	251,937	1,371,111		994,727	658,849	384,345	206,384	40,648	70,129	3,939	114,716	2,359,022	3,730,133
1994	335,740	159,829	495,569		126,937	570,773	546,992	159,978	42,936	37,371	949	81,256	1,485,936	1,981,506

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Table 5. (page 3 of 3)

Area and Year	Juvenile	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Male	Total Crab
		Adult	Total	<70	70-91	92-114	>114	<165		>164				
EASTERN ALEUTIAN DISTRICT														
Akutan Bay														
1990	464,232	779,189	1,243,422	621,581	927,652	454,521	148,139	15,190	0	0	0	15,190	2,167,083	3,410,505
1991	745,793	580,768	1,326,561	812,714	355,129	533,275	374,345	13,291	13,291	0	0	26,583	2,102,045	3,428,606
1994	949	2,938	3,887	2,938	7,685	15,638	34,572	2,848	949	0	3,798	64,630	68,518	
Beaver Inlet														
1990	943,653	190,343	1,133,996	931,323	229,433	97,915	27,056	3,093	772	0	3,864	1,289,592	2,423,588	
1991	468,821	136,294	605,115	446,024	178,136	72,435	21,868	2,124	0	0	2,124	720,586	1,325,701	
1994	38,944	51,619	90,563	33,995	6,696	41,034	47,663	17,028	772	0	17,800	147,188	237,751	
Unalaska/Kalekta Bay														
1990	1,121,780	359,433	1,481,213	667,671	60,258	78,876	42,943	11,493	767	2,002	14,262	864,010	2,345,224	
1991	981,240	137,467	1,118,707	920,710	167,931	41,207	25,026	8,906	0	1,001	9,907	1,164,780	2,283,487	
1994	17,485	1,466	18,950	17,485	949	0	1,982	949	1,549	0	2,499	22,915	41,865	
Makushin Bay														
1990	440,147	313,415	753,562	368,978	83,153	76,482	125,451	6,927	23,030	0	29,956	684,021	1,437,583	
1991	89,388	149,174	238,561	76,313	85,035	51,894	70,213	5,911	29,135	2,576	37,622	321,078	559,639	
1994	148,701	159,042	307,743	127,267	19,768	98,634	109,429	36,353	1,662	0	38,015	393,113	700,856	
Usof Bay														
1990	103,322	25,229	128,551	103,385	100,755	29,621	2,026	574	0	0	574	236,361	364,912	
1991	89,209	70,804	160,013	232,477	259,878	66,540	26,990	4,496	2,625	0	7,121	593,005	753,018	
1994	15,860	3,500	19,360	13,782	8,932	6,187	7,638	875	0	0	875	37,413	56,773	
Akun Bay														
1990	2,093	1,063	3,156	0	0	0	0	0	0	0	0	0	0	3,156
1991	0	0	0	1,060	0	0	0	0	0	0	0	0	0	1,060
1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumistone														
1990	48,859	0	48,859	48,606	674	0	0	0	0	0	0	0	49,281	98,140
1991	24,252	235	24,486	19,208	5,865	1,173	0	0	235	0	0	235	26,481	50,967
1994	6,510	909	7,419	5,748	5,366	5,220	674	0	0	0	0	0	17,008	24,427
Cape Idak														
1990	3,255	3,662	6,917	0	2,713	0	2,713	0	3,255	0	3,255	8,680	15,597	
1991	119,621	2,848	122,469	122,469	3,798	949	1,899	0	0	0	0	129,115	251,584	
1994	0	949	949	2,848	5,696	0	0	0	0	0	0	0	8,544	9,494
Inanudak Bay														
1990	4,657	0	4,657	0	0	3,110	949	0	0	0	0	0	4,059	8,716
1994	3,390	0	3,390	1,695	0	0	0	0	0	0	0	0	1,695	5,086
EASTERN ALEUTIAN TOTALS														
1990	3,131,999	1,672,335	4,804,334	2,741,545	1,404,638	740,525	349,277	37,276	27,823	2,002	67,102	5,303,086	10,107,419	
1991	2,518,323	1,077,589	3,595,913	2,630,975	1,055,771	767,473	520,340	34,728	90,571	3,577	128,877	5,103,437	8,699,349	
1994	231,840	220,422	452,262	205,758	55,092	166,713	201,959	58,054	4,932	0	62,986	692,507	1,144,769	

Table 6. Relative abundance by weight of the 20 most encountered species of groundfish and invertebrates captured from stations located south of the Alaska Peninsula, 1994.

Species Name	% of Catch by Weight
Pollock (<i>Theragra chalcogramma</i>)	22.9
Flathead sole (<i>Hippoglossoides elassodon</i>)	22.2
Yellowfin sole (<i>Pleuronectes aspera</i>)	18.3
Arrowtooth flounder (<i>Atheresthes stomias</i>)	15.7
Rock sole (<i>Lepidopsetta bilineata</i>)	3.9
Pacific halibut (<i>Hippoglossus stenolepis</i>)	3.1
Pacific cod (<i>Gadus macrocephalus</i>)	2.7
Sea anemone (Order: Actiniaria)	1.7
Starfish (Subclass: Asteroidea)	1.4
Sculpins (Family: Cottidae)	1.3
Alaska plaice (<i>Pleuronectes quadrituberculatus</i>)	1.3
Starry flounder (<i>Platichthys stellatus</i>)	1.2
Skates (<i>Raja & Bathyraja</i>)	1.0
Tanner crab (<i>Chionoecetes bairdi</i>)	0.9
Hermit crab (Family: Paguridae)	0.4
Dungeness crab (<i>Cancer magister</i>)	0.3
Snails (Class: Gastropoda)	0.3
Butter sole (<i>Isosetta isolepis</i>)	0.2
Urchin (Order: Echinoida)	0.2
Eelpout (Family: Zoarcidae)	0.1

Table 7. Relative abundance by weight of the 20 most encountered species of groundfish and invertebrates captured from a trawl survey of the Eastern Aleutians area, 1994.

Species Name	% of Catch by Weight
Arrowtooth flounder (<i>Atheresthes stomias</i>)	25.5
Pollock (<i>Theragra chalcogramma</i>)	22.9
Flathead sole (<i>Hippoglossoides elassodon</i>)	13.1
Rock sole (<i>Lepidotsetta bilineata</i>)	9.7
Pacific cod (<i>Gadus macrocephalus</i>)	9.2
Pacific halibut (<i>Hippoglossus stenolepis</i>)	3.3
Rex sole (<i>Glyptocephalus zachirus</i>)	3.1
Sculpins (Family: Cottidae)	3.1
Starfish (Subclass: Asteroidea)	1.4
Tanner crab (<i>Chionoecetes bairdi</i>)	1.0
Sponge (Phylum: Porifera)	0.9
Pacific herring (<i>Clupea harengus</i>)	0.8
Skates (<i>Raja</i> & <i>Bathyraja</i>)	0.8
Sea anemone (Order: Actiniaria)	0.7
Snails (Class: Gastropoda)	0.6
Yellowfin sole (<i>Limanda aspera</i>)	0.6
Sturgeon Poacher (<i>Agonus acipenserinus</i>)	0.6
Hermit crab (Family: Paguridae)	0.3
Urchin (Order: Echinoida)	0.3
Octopus (Order: Octopoda)	0.2

Table 8. Summary of bitter crab disease sampling in Alitak Bay, 1991-1994.

STATION	BCS PREVALENCE								BCS POPULATION				STATION POPULATION			
	1991		1992		1993		1994									
	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	1991	1992	1993	1994	1991	1992	1993	1994
ALA	30	6.7	30	0.0	30	3.5	29	0.0	1,475	0	83,142	0	22,010	21,600	2,375,473	9,570
ALB	24	23.8	23	8.7	11	0.0	0	0.0	1,041	349	0	0	4,375	4,010	5,312	0
ALC	29	0.0	30	0.0	30	13.3	29	3.4	0	0	337,756	577	156,715	78,213	2,539,517	132,121
ALD	30	0.0	29	0.0	30	3.3	9	11.1	0	0	3,391	577	185,865	109,095	102,745	5,195
ALF	30	6.7	29	0.0	30	10.0	17	0.0	35,156	0	46,994	0	524,723	136,345	469,941	17,089
ALG	30	3.3	30	3.4	30	3.4	28	10.7	2,820	899	9,735	4,153	85,459	26,431	286,332	38,765
ALH	30	3.3	30	10.0	30	6.7	30	3.3	5,772	5,640	9,136	2,404	174,913	56,400	136,361	72,107
ALI	30	13.3	30	6.7	30	6.7	30	3.3	9,504	4,146	7,767	8,718	71,461	61,884	115,930	261,534
ALJ	28	10.7	30	3.3	30	3.3	30	16.7	16,520	2,228	67,734	8,577	154,391	67,504	2,052,534	51,464
ALK	17	41.2	15	20.0	30	6.7	9	55.6	3,267	1,762	20,719	2,753	7,929	8,810	309,238	4,956
ALL	30	6.7	28	7.1	30	3.3	30	3.3	2,987	4,015	3,826	1,850	44,586	56,543	115,930	55,494
ALM	27	48.1	3	33.3	30	6.7	6	0.0	9,959	713	25,639	0	20,704	2,142	382,666	4,284
ALO	28	42.9	30	24.1	30	13.3	30	0.0	34,198	29,687	18,413	0	79,716	123,183	138,442	56,355
ALP	30	60.0	29	37.9	30	26.7	30	23.3	56,142	91,237	69,726	11,710	93,570	240,731	261,146	50,188
ALQ	30	60.0	29	27.6	30	16.7	30	3.3	39,427	64,094	42,191	2,844	65,712	232,225	252,640	85,330
ALR	30	33.3	29	24.1	30	10.0	30	3.3	99,228	65,675	25,651	1,086	297,982	272,509	256,514	32,583
TOTALS	453	16.0	424	18.1	461	7.9	367	5.6	317,496	270,445	771,820	45,249	1,990,111	1,497,625	9,800,721	877,035



Figure 1. Areas surveyed during the 1994 Westward Region trawl survey (dark portions).

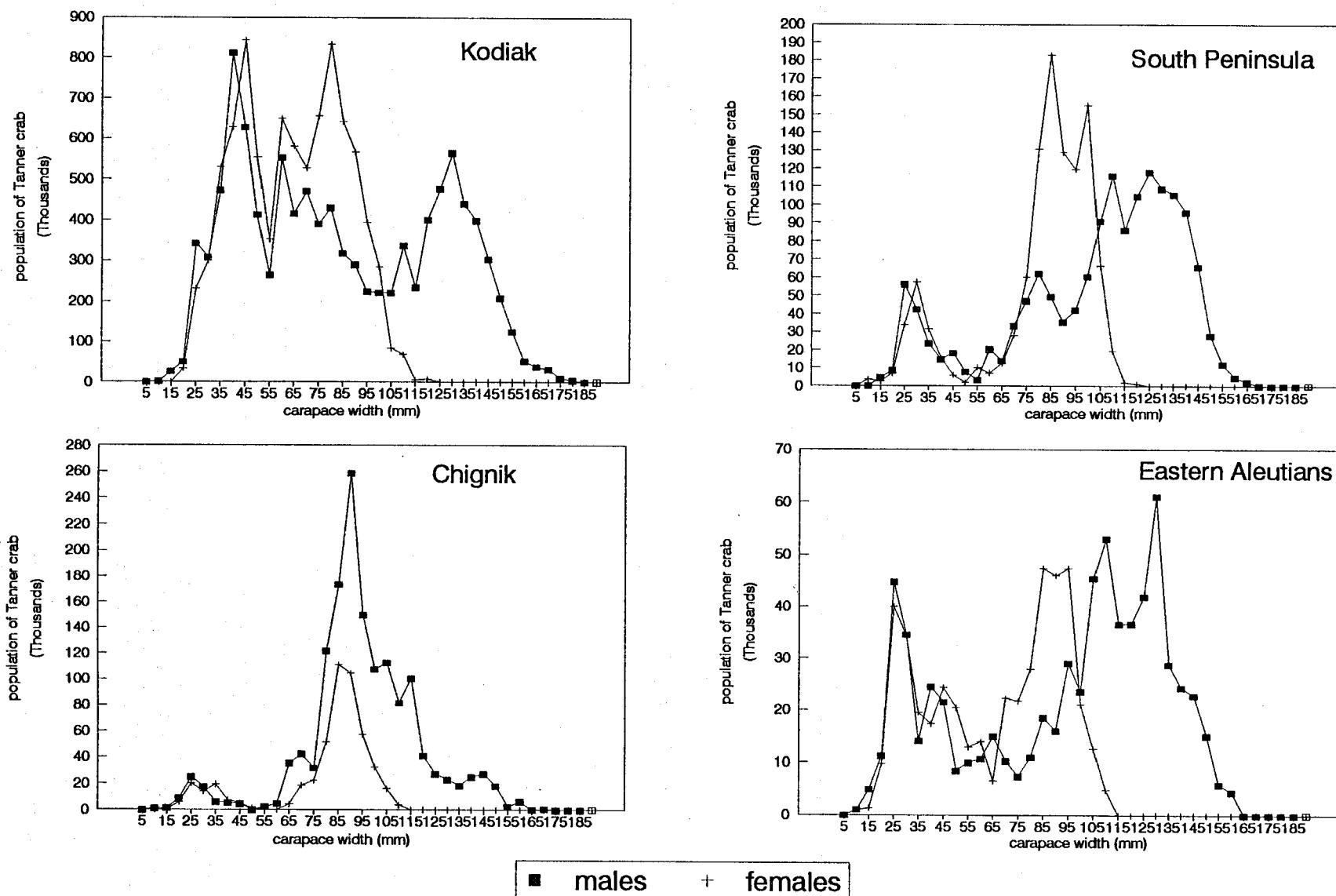


Figure 2. Carapace width frequency of male and female Tanner crab captured during the 1994 Westward Region trawl survey.

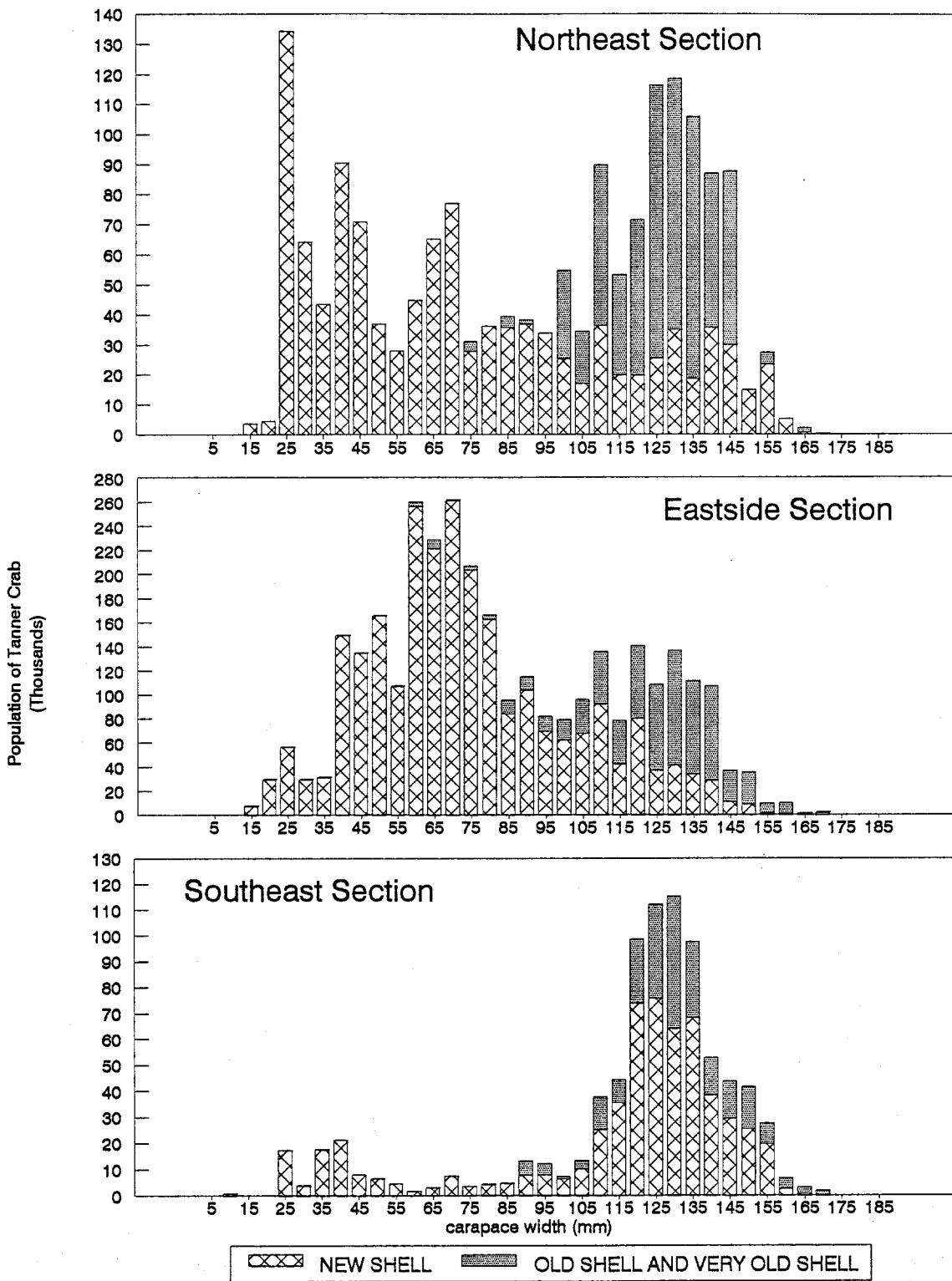


Figure 3. A stacked bar graph of carapace width frequency by shell condition of the estimated population of male Tanner crab from the Northeast, Eastside, and Southeast Sections of Kodiak Island taken during the 1994 trawl survey.

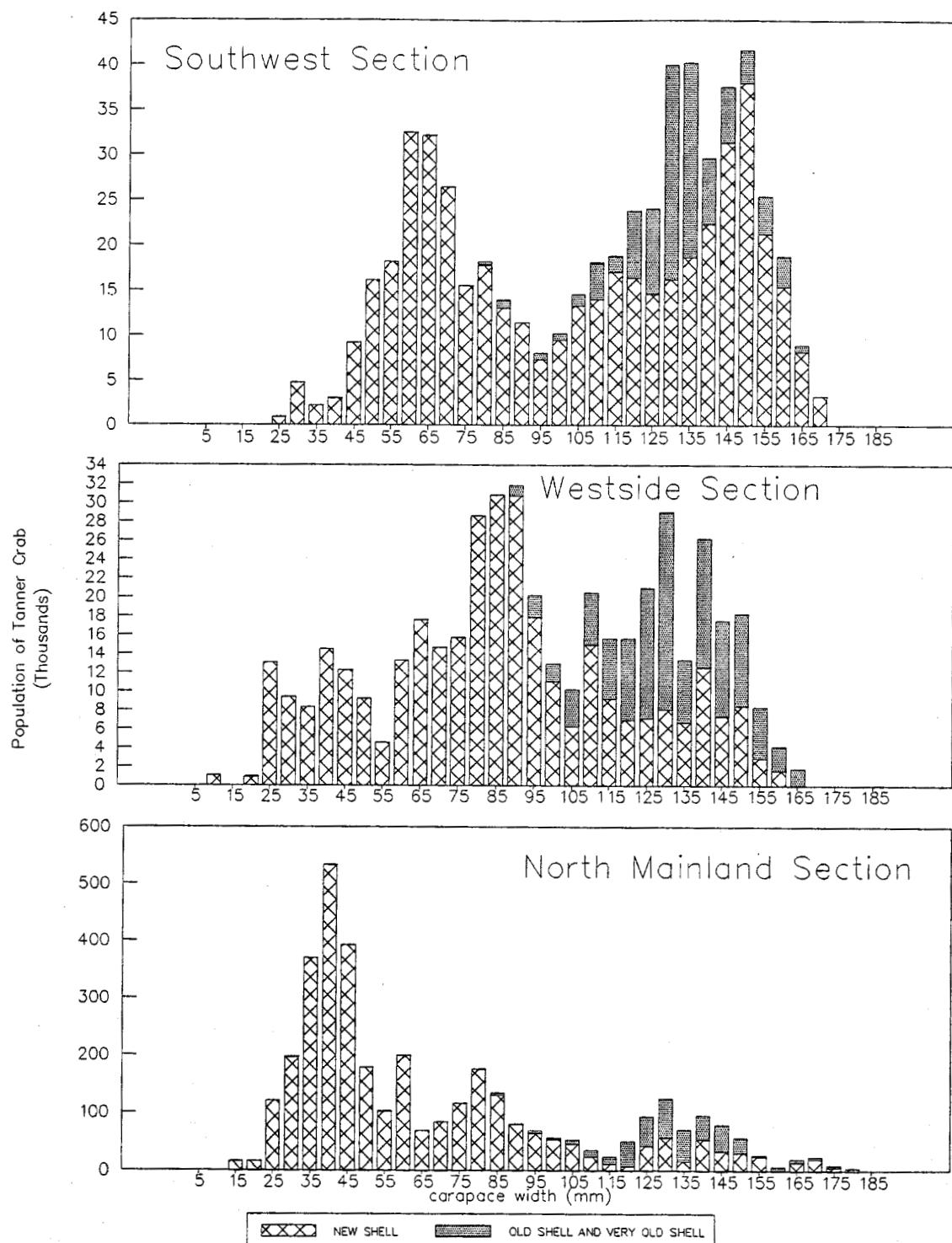


Figure 4. A stacked bar graph of carapace width frequency by shell condition of the estimated population of male Tanner crab from the Southwest, Westside and North Mainland Sections of Kodiak taken during the 1994 trawl survey

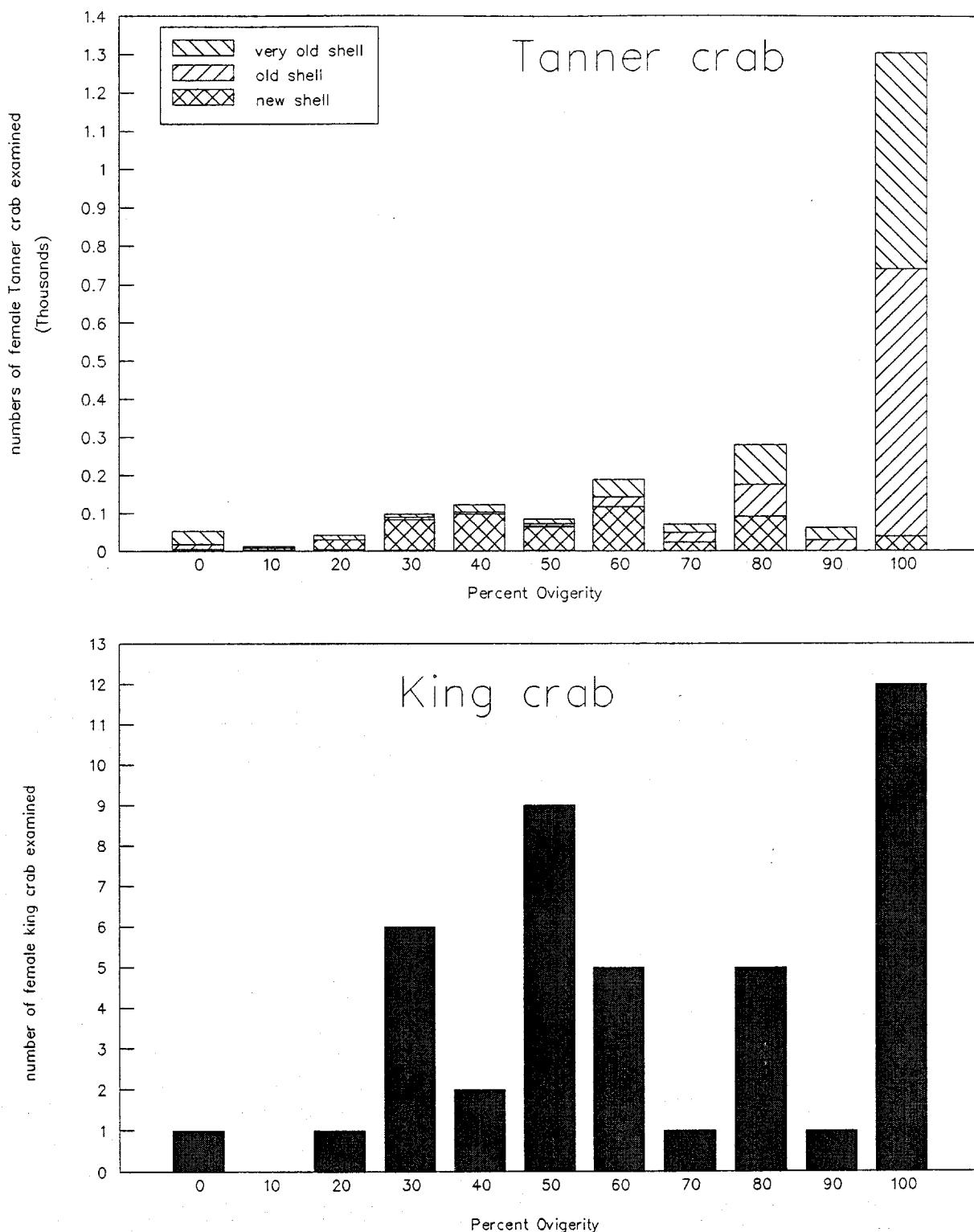


Figure 5. Percent Ovigerity of king and Tanner crab captured during the Kodiak trawl survey, 1994. Tanner crab ovigerity is presented as a stacked bar graph

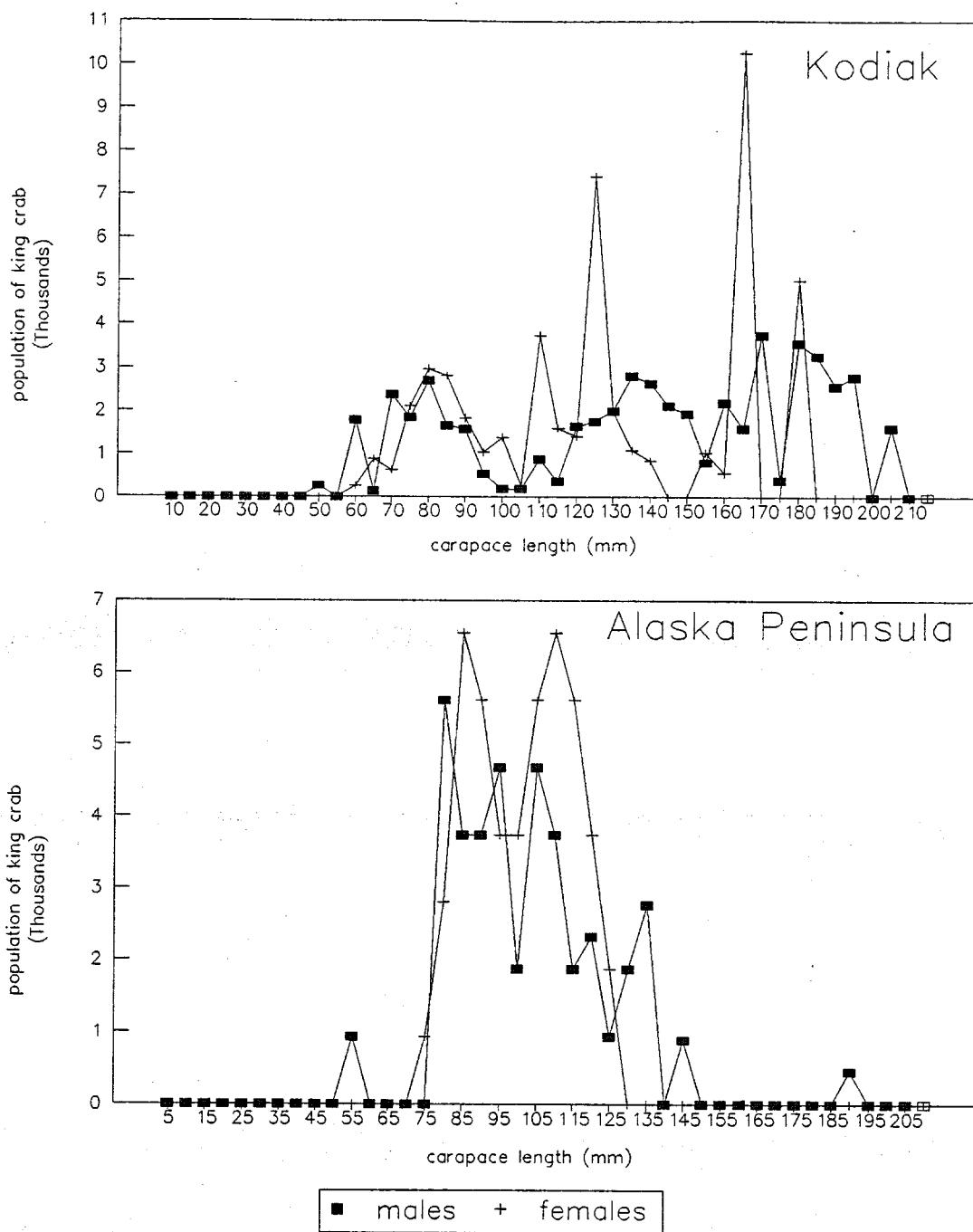


Figure 6. Carapace length frequency of the estimated populations of red king crab from the Kodiak and Alaska Peninsula Management Areas, taken during the 1994 trawl survey.

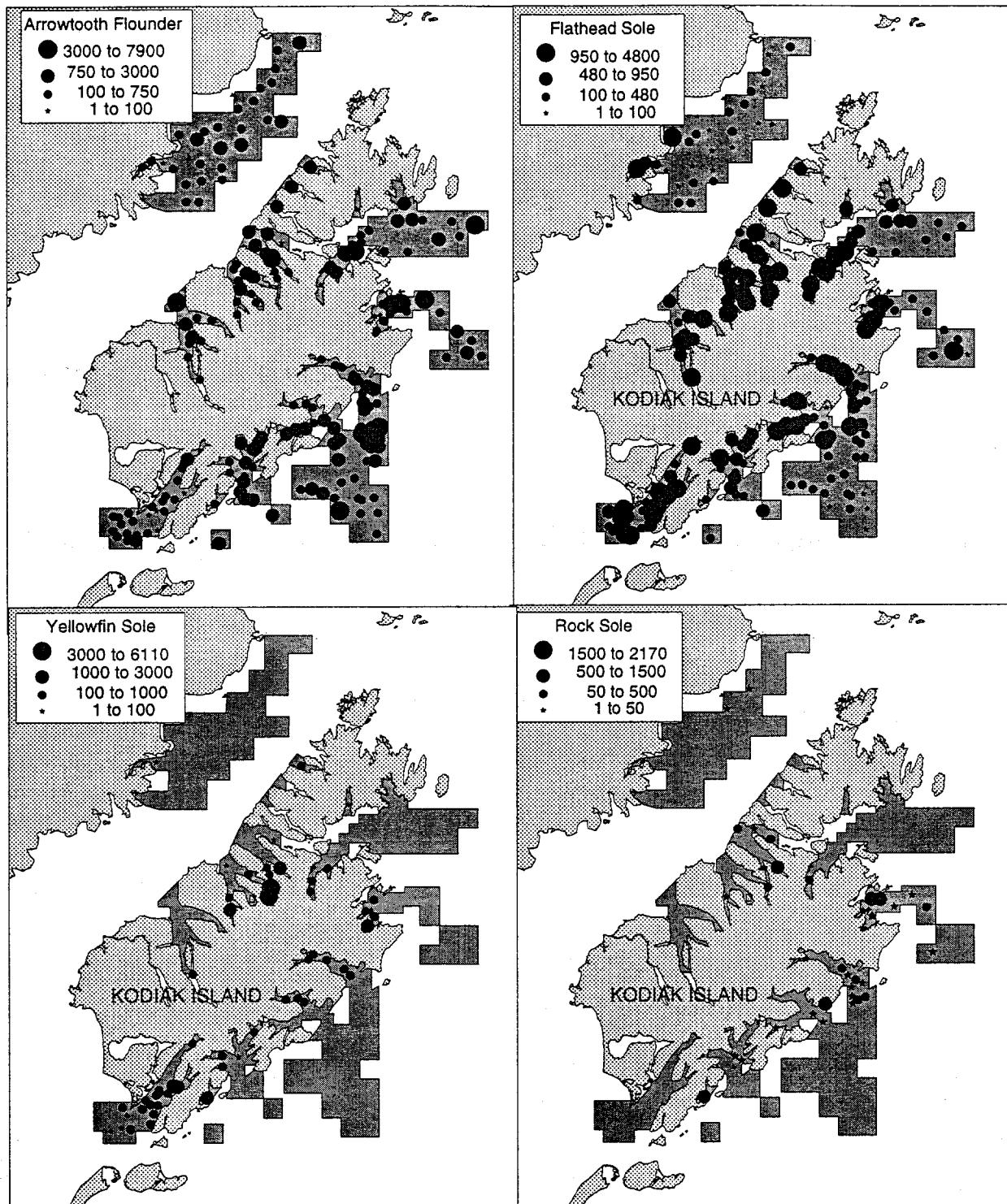


Figure 7. Catch of selected flatfish in pounds per nautical mile from the 1994 Kodiak Trawl Survey.
Surveyed areas shown in dark gray.

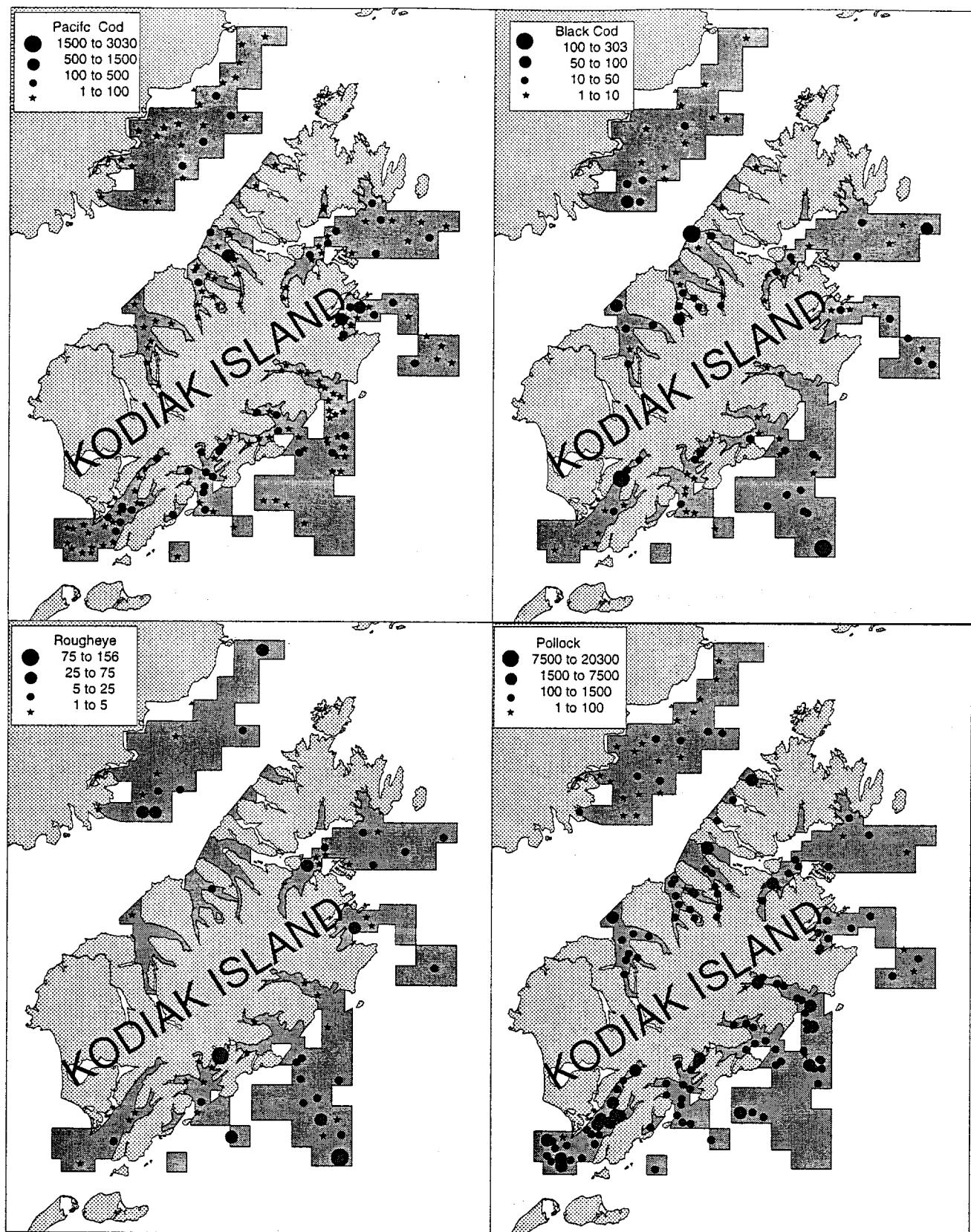


Figure 8. Catch of selected round fish in pounds per nautical mile from the 1994 Kodiak trawl survey. Surveyed areas shown in dark gray.

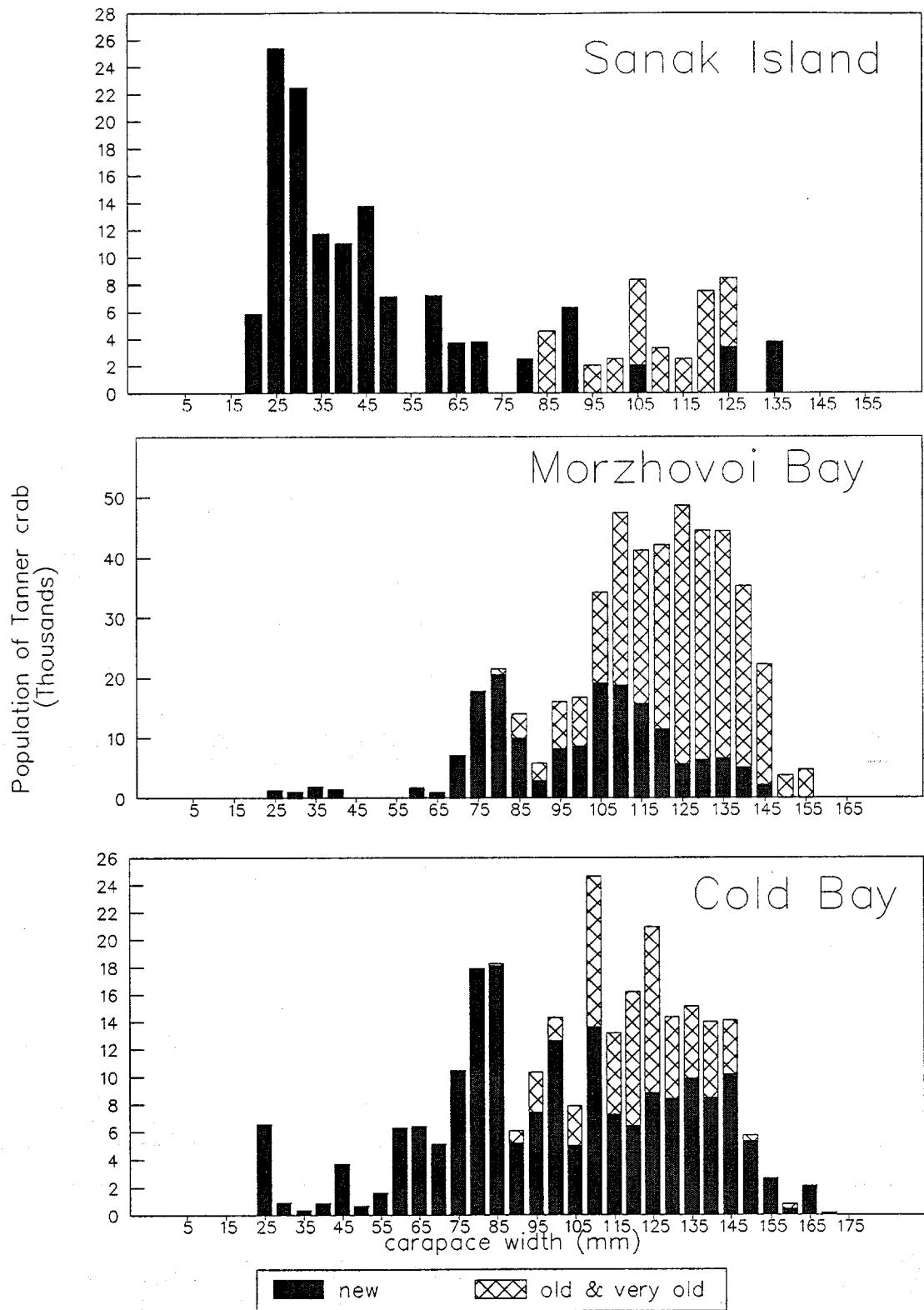


Figure 9. A stacked bar graph of carapace width frequency by shell condition of the estimated population of male Tanner crab from Sanak Island, Morzhovoi Bay, and Cold Bay, Alaska Peninsula Trawl Survey, 1994.

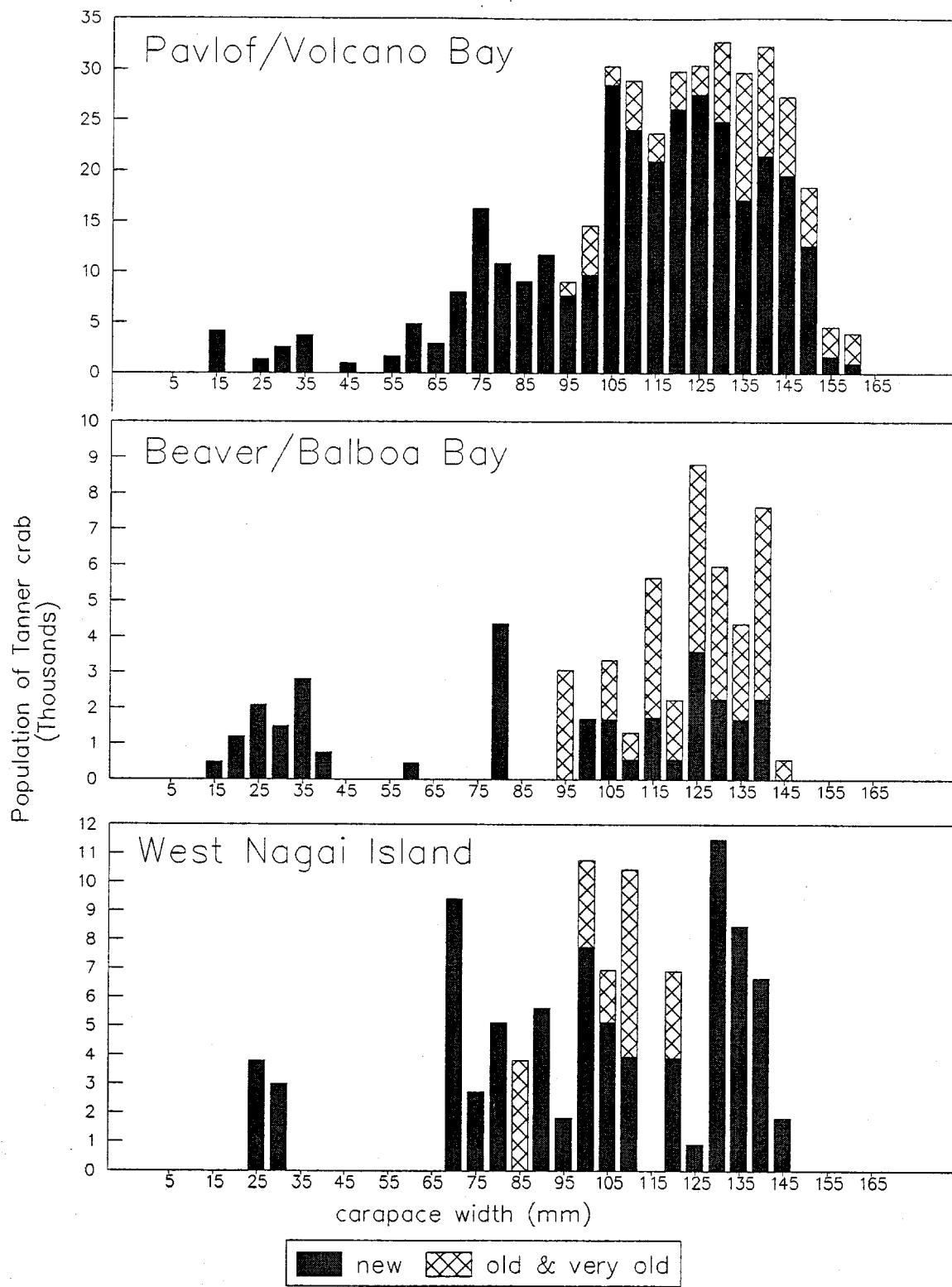


Figure 10. A stacked bar graph of carapace width frequency by shell condition of the estimated population of male Tanner crab from Pavlof, Volcano, Beaver, and Balboa Bays and West Nagai Island area, Alaska Peninsula trawl survey, 1994.

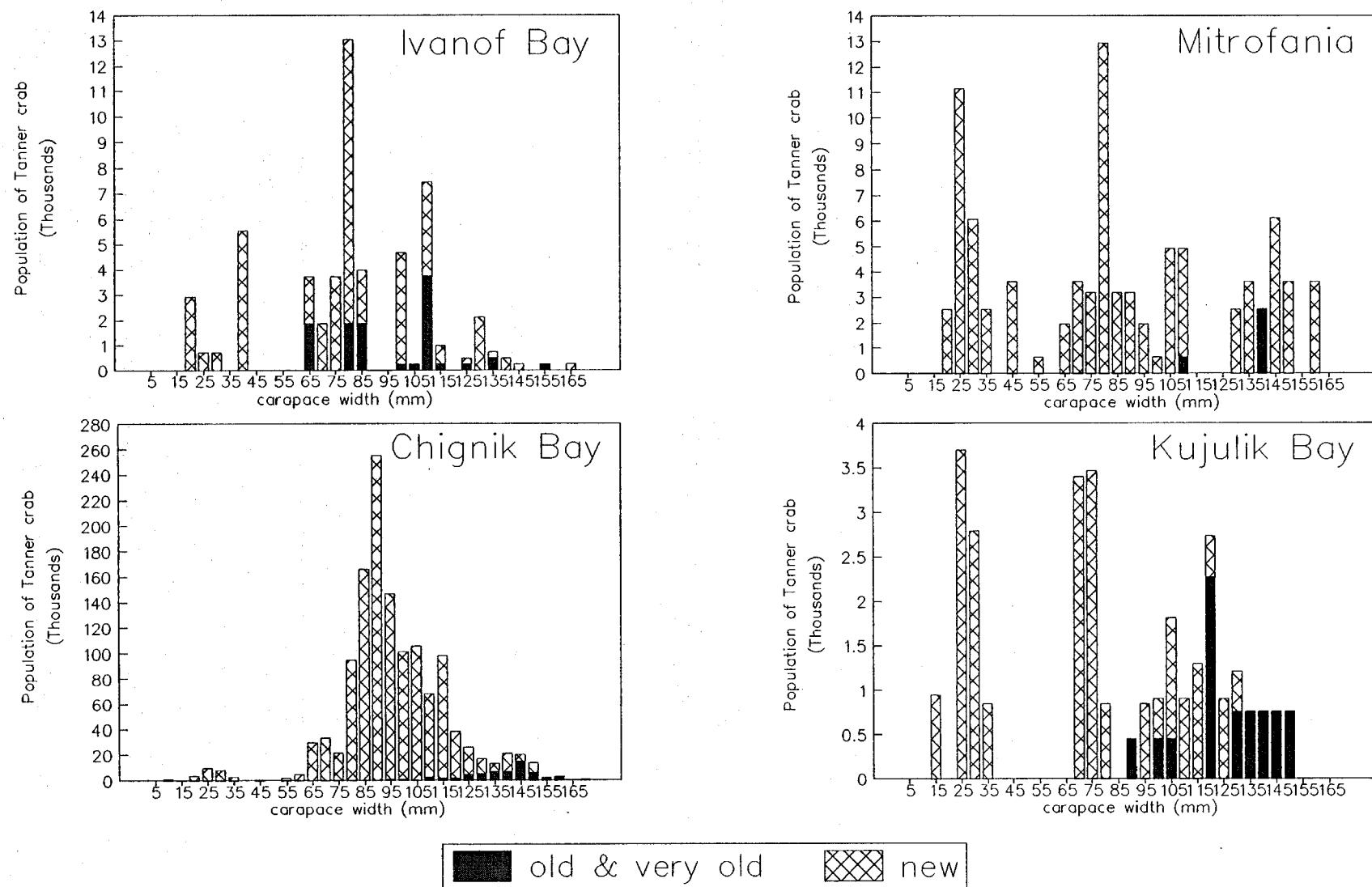


Figure 11. Stacked bar graphs of carapace width frequency by shell condition of the estimated population of male Tanner crab from Ivanof, Chignik, and Kujulik Bays and the Mitrofania Island area, Alaska Peninsula trawl survey, 1994.

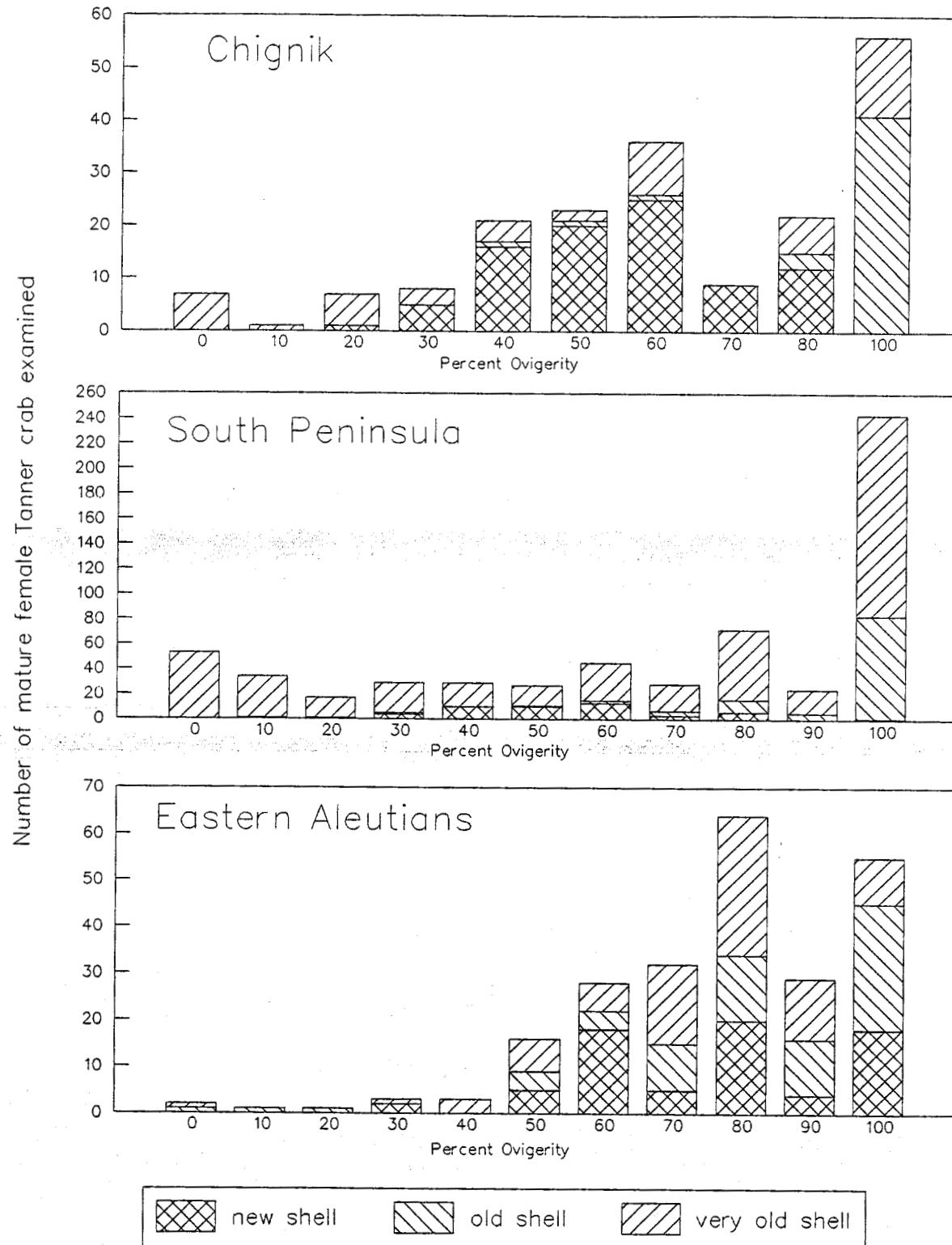


Figure 12. Percent ovigarity of adult female Tanner crab captured in the Chignik, South Peninsula, and Eastern Aleutians Management Districts during the 1994 Westward Region trawl survey.

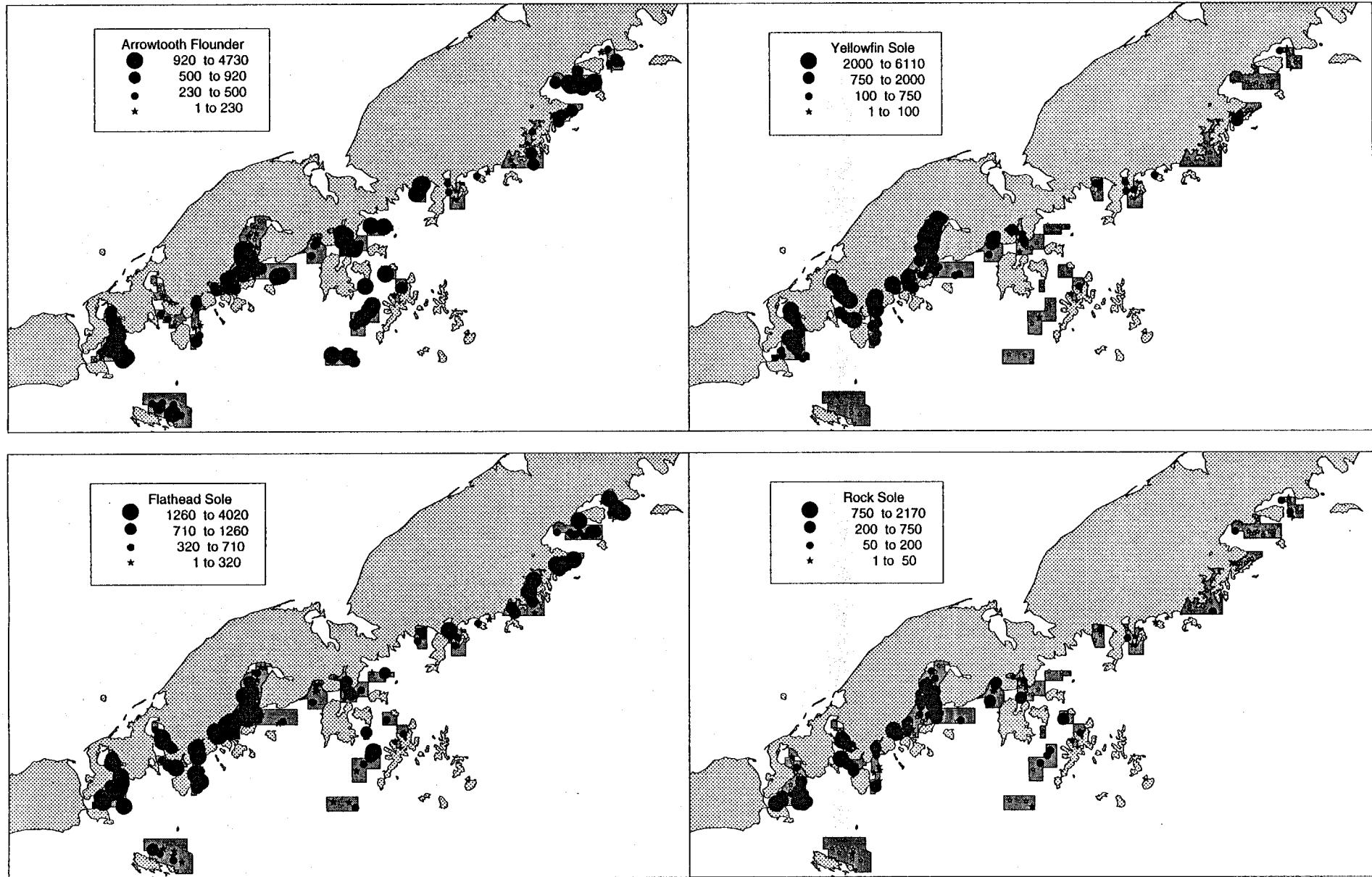


Figure 13. Catch of selected flatfish in pounds per nautical mile from the 1994 Alaska Peninsula trawl survey. Surveyed areas shown in dark gray.

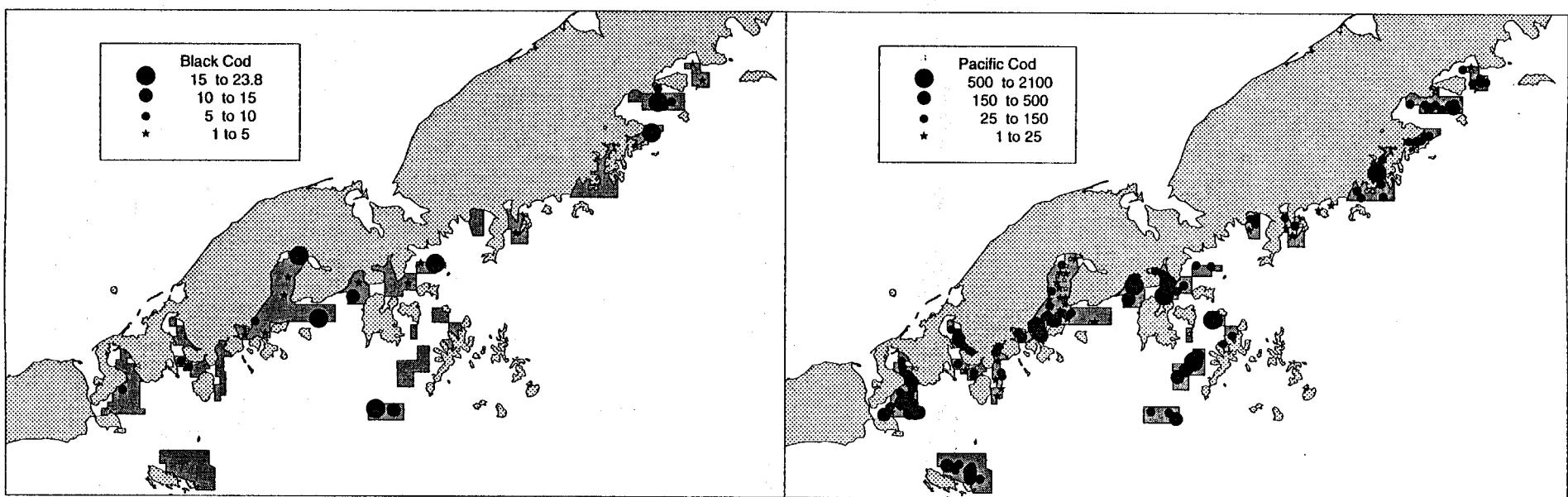
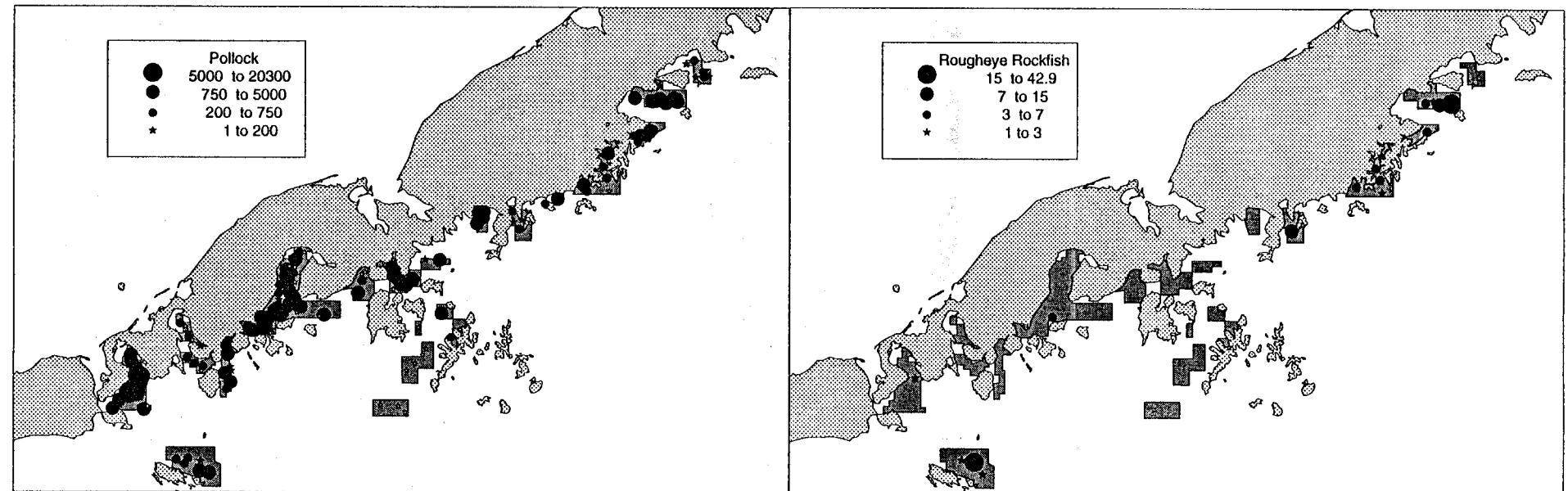


Figure 14. Catch of selected roundfish in pounds per nautical mile from the 1994 Alaska Peninsula trawl survey. Surveyed areas shown in dark gray.

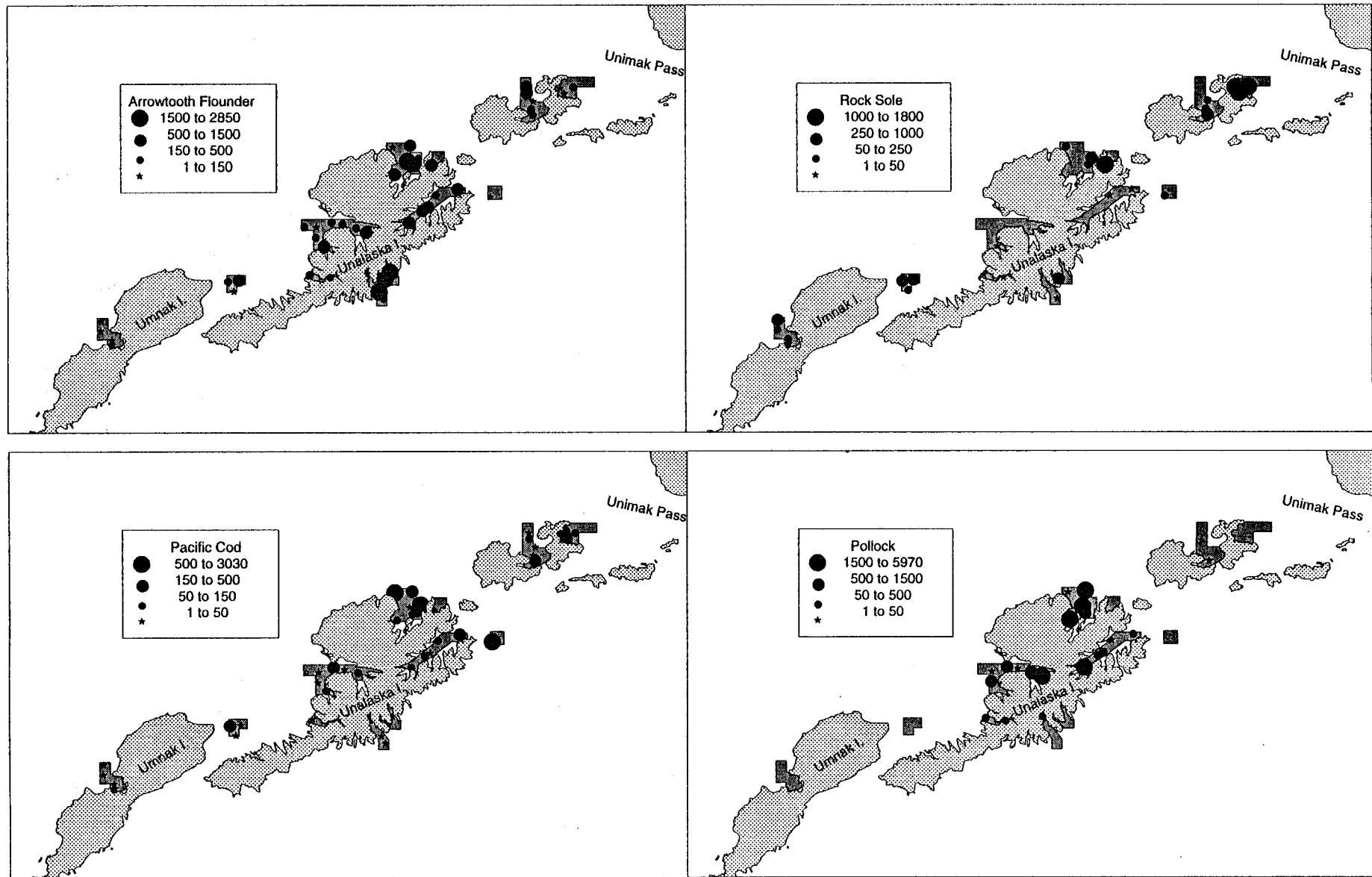


Figure 15. Catch of selected groundfish in pounds per nautical mile from the 1994 Eastern Aleutians trawl survey. Surveyed areas shown in dark gray.

APPENDIX

Appendix A. Explanation of Terms and Acronyms.

The following definitions were developed for characterizing Tanner crab, *Chionoecetes bairdi*, examined in this report.

Newshell (NS)	Hard exoskeletal animal; the dorsal side of the carapace brownish-red; no apparent scratching on ventral side; epifauna absent or limited; and dactyli, pterygostomial and branchial spines sharp.
Oldshell (OS)	An apparent skip molt; carapace hard and brownish; thoracic sternum and ventral sides of legs with numerous scratches and abrasions; dactyli, pterygostomial and branchial spines worn; epifauna may be present.
Very Oldshell (VOS)	An obvious skip molt; carapace hard, dark brown to blackish; thoracic sternum and ventral side of legs with multiple scratches and abrasions; underside of legs usually dark yellow-brown; dactyli, pterygostomial and branchial spines heavily worn; epifauna usually present: e.g., large barnacles.
Molting	All physiological events leading up to ecdysis and including ecdysis.
Skip Molt	A crab which has retained its exoskeleton (not molted) for more than 12 months.
Crab Measurements	Crab measurements are made in millimeters with a vernier calipers and refer to carapace width (CW) inside the spines, however legal size is measured outside the spines.
Prerecruit IV	Male Tanner crab less than or equal to 69 mm in carapace width and four or more molts from attaining legal size. Note that this group includes prerecruit IV, V and VI and younger crabs but are referred to a prerecruit IV's herein.
Prerecruit III	Male Tanner crab 70-91 mm in carapace width and three molts from attaining legal size.
Prerecruit II	Male Tanner crab 92-114 mm in carapace width and two molts from attaining legal size.
Prerecruit I	Male Tanner crab 115-139 mm in carapace width and one molt from attaining legal size.

-Continued-

Appendix A. (page 2 of 3)

Recruit Legals	Newshell male Tanner crab 140-164 mm in carapace width, recruited to legal size in year of capture.
Postrecruit Legals	Male crab that have been legal size at least one year: defined as oldshells and very oldshells 140-164 mm and all males >164 mm in carapace width.
Total Legals	All male Tanner crab >139 mm in carapace width outside the spines.
Females	Identified as adult or immature by visual observation of abdominal flap.
The following definitions were developed for characterizing king crab, <i>Paralithodes camtschaticus</i> , examined in this report.	
Carapace Length	The straight line distance across the carapace from the posterior margin of the right eye orbit to the medial-posterior margin of the carapace.
Legal Size	The Board of Fisheries sets the legal size of king crab. In the Kodiak Management Area, legal size is set at seven inches (178 mm) or greater in width of shell. In the Alaska Peninsula and Dutch Harbor Management Areas, legal size is set at 6 1/2 inches (165 mm). Measurements are made including the spines, as the straight line distance across the carapace at a right angle to a line midway between the eyes to the midpoint of the posterior portion of the carapace.
Juvenile Females	Nonovigerous females with carapace lengths of less than 116 mm.
Adult, Mature Females	Ovigerous and nonovigerous females with carapace lengths greater than 115 mm.
Adult, Mature Males	Male king crabs with carapace lengths greater than 130 mm.
Newshell Males	Individuals that molted during the last molting season (generally January through April).
Oldshell Males	(Skipmolts) Individuals that failed to molt during last molting season.
Very Oldshell Males	(Double Skipmolts) Individuals that failed to molt during the last two or more molting seasons.

-Continued-

Appendix A. (page 3 of 3)

Prerecruit IV	Individuals estimated to be 4 or more years from legal size and less than 95 mm in length in the Kodiak Management Area, less than 79 mm in the Alaska Peninsula and Dutch Harbor Management Areas.
Prerecruit III	Individuals estimated to be 3 years from legal size and 95-112 mm in length in the Kodiak Management Area, and 79-95 mm in the Alaska Peninsula and Dutch Harbor Management Areas.
Prerecruit II	Individuals estimated to be 2 years from legal size and 113-130 mm in length in the Kodiak Management Area, and 96-115 mm in the Alaska Peninsula and Dutch Harbor Management Areas.
Prerecruit I	Individuals estimated to be 1 year from legal size which includes all sublegals greater than 130 mm in length in the Kodiak Management Area, and greater than 116 mm in length in the Alaska Peninsula and Dutch Harbor Management Areas.
Recruits	Newshell males which are legal size and are in their first year of availability to the fishery which includes crabs less than or equal to 164 mm in length in the Kodiak Management Area, and less than or equal to 152 mm in length in the Alaska Peninsula and Dutch Harbor Management Areas.
Postrecruit	Males which are legal size and old shell or very old shell or males which are of greater length than recruit crab.

Appendix B. Fishing log and catch data from the Westward Region trawl survey, 1994. Temperatures in degrees Centigrade.
 Temperatures not available for hauls 158-337. Haul performance satisfactory for all hauls except number 199.

Haul	1	2	3	4	5	6	7	8	9	10
Location	N.E.KOD									
Month/Day/Year	06/25/94	06/25/94	06/25/94	06/25/94	06/25/94	06/25/94	06/26/94	06/26/94	06/26/94	06/26/94
Station	kzc	kzb	kza	kzd	kze	kzf	kzg	kzj	kzk	moex
Longitude Start	152 44.8	152 52.1	152 53.0	152 47.6	152 40.4	152 41.3	152 35.9	152 37.4	152 33.1	152 22.4
Latitude Start	57 51.7	57 48.5	57 45.8	57 52.8	57 55.3	57 56.4	57 56.9	57 58.5	57 59.2	57 56.9
Heading, Degrees	27	28	0	38	192	209	270	0	2	55
Average Depth (m)	60	51	37	101	101	128	135	132	187	124
Distance Fished (km)	1.9	1.3	1.9	1.3	1.9	1.3	1.9	1.9	1.9	1.5
Bottom Temp. (°C)	6.5	5.3	5.3	6.2	6.	5.9	5.6	5.9	5.2	5.8
-----KILOGRAMS/KILOMETER-----										
Pollock	15.9	134.0	0.0	826.8	24.7	0.0	300.0	77.9	0.0	79.3
Pacific Cod	0.0	17.1	16.2	0.0	11.3	57.7	11.3	2.7	30.6	11.6
Pacific Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rockfish	0.0	0.0	0.0	0.0	0.0	5.6	0.5	0.2	0.7	0.3
Thornyhead Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.2	0.0	0.5	3.1	1.0	2.1	0.0	0.0	1.2	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	42.7	29.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Roundfish	0.0	0.0	0.2	5.6	0.0	3.5	0.0	0.0	0.0	3.1
TOTAL ROUNDISH	16.2	193.8	46.0	835.5	37.0	68.9	311.8	80.8	32.6	94.3
Arrowtooth Flounder	255.7	3.5	0.0	596.9	123.7	569.3	1250.3	150.6	74.9	111.7
Flathead Sole	279.7	426.2	100.2	275.7	271.9	129.5	200.1	62.5	110.0	83.0
Rock Sole	0.0	45.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	5.9	24.5	16.9	7.0	3.7	2.8	4.7	10.8	15.9	0.0
Starry Flounder	0.0	182.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	24.0	60.9	76.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Flatfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	565.3	743.2	199.6	879.6	399.2	701.5	1455.1	223.9	200.8	194.7
Skates	56.6	0.0	0.0	10.1	12.2	15.7	0.0	13.0	28.4	22.7
Spiny Dogfish	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.0	10.1	0.2	26.9	0.2	4.2	0.2	0.7	2.4	0.6
Red King Crab	0.0	2.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2	1.2	0.9
Scallop	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0
Other Inverts	14.9	0.0	0.7	0.0	42.6	15.4	14.0	15.7	8.1	1.2
TOTAL INVERTS	14.9	12.2	4.2	28.7	44.1	22.7	14.2	17.6	11.8	2.8
TOTAL CATCH(kg/km)	653.0	949.3	249.8	1757.1	492.5	808.9	1781.1	335.3	273.6	314.4

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Haul	11	12	13	14	15	16	17	18	19	20
Location	N.E.KOD									
Month/Day/Year	06/26/94	06/26/94	06/26/94	06/26/94	06/27/94	06/27/94	06/27/94	06/27/94	06/27/94	06/28/94
Station	mogx	molx	mopx	moxx	255	256	257	284	283	kzs
Longitude Start	152 11.4	152 9.3	152 16.1	152 13.1	152 4.2	151 50.8	151 39.7	151 47.0	151 56.8	152 35.2
Latitude Start	57 56.7	58 4.8	58 4.5	58 8.8	58 4.7	58 4.3	58 3.4	58 0.6	57 59.9	58 8.1
Heading, Degrees	284	343	60	305	130	90	289	252	272	6
Average Depth (m)	198	190	172	170	150	135	155	139	172	88
Distance Fished (km)	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7
Bottom Temperature	5.5	5.4	5.3	5.5	5.3	5.7	5.1	4.9	5.	3.6
KILOGRAMS/KILOMETER										
Pollock	0.0	0.0	11.5	39.9	40.4	0.0	0.0	4.7	0.0	0.0
Pacific Cod	45.4	28.7	6.6	57.3	13.0	8.3	14.0	24.0	3.7	10.6
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	3.0	0.2	3.9	0.0	0.0	0.0	1.5	0.0	4.9	0.0
Thornyhead Rkf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.2	0.0	0.0	0.0	0.5	2.0	0.0	0.0
Sablefish	4.1	3.2	0.0	0.0	0.0	0.7	13.0	0.0	2.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
Other Roundfish	0.0	11.8	1.0	7.1	0.0	2.9	1.0	0.0	0.0	0.0
TOTAL ROUNDFISH	52.5	51.2	23.3	104.3	53.4	12.0	29.9	30.6	10.5	15.8
Arrowtooth Flndr	114.0	297.8	180.8	188.1	75.2	153.6	671.6	85.5	265.5	0.0
Flathead Sole	59.6	152.6	125.2	119.8	101.2	34.5	36.2	23.8	67.6	133.6
Rock Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rex Sole	0.0	0.0	8.1	0.0	0.0	12.5	0.0	26.2	0.0	0.0
Dover Sole	10.9	0.0	0.0	0.0	0.0	37.5	0.0	26.2	0.0	0.0
Pac Halibut	115.1	26.7	4.4	21.8	19.1	31.6	93.3	16.2	81.6	36.7
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1
Other Flatfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	299.6	477.1	318.4	329.7	195.4	269.7	801.1	177.8	414.7	180.4
Skates	32.4	16.9	10.8	49.5	14.9	17.1	36.5	11.8	31.8	6.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	5.4	51.7	3.2	3.4	15.2	0.5	0.0	0.0	1.7	31.6
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Shrimp	0.0	3.7	3.4	1.5	1.0	0.0	0.0	0.2	2.2	0.0
Scallop	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.2	0.0	0.0
Other Inverts	15.0	45.3	20.1	17.6	0.2	10.3	2.7	2.4	0.7	1.4
TOTAL INVERTS	20.4	100.7	26.7	22.5	16.4	11.3	2.7	2.9	4.7	34.8
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	404.9	645.9	379.1	506.0	280.2	310.1	872.2	223.1	461.7	237.0

-Continued-

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Haul	21	22	23	24	25	26	27	28	29	30
Location	N.E.KOD									
Month/Day/Year	06/28/94	06/28/94	06/28/94	06/29/94	06/29/94	06/29/94	06/29/94	06/29/94	06/29/94	06/29/94
Station	kzr	monx	kzo	369x	395	420	421	444	443	442
Longitude Start	152 35.2	152 29.4	152 33.4	152 3.4	151 56.3	151 48.1	151 41.4	151 36.9	151 43.4	151 53.3
Latitude Start	58 7.4	58 2.1	58 0.9	57 44.9	57 41.6	57 36.9	57 34.5	57 30.6	57 31.5	57 30.3
Heading, Degrees	180	6	40	180	121	136	137	317	281	232
Average Depth (m)	117	198	194	110	113	126	121	165	146	93
Distance Fished (km)	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature	3.6	5.2	5.4	6.3	6.4	6.1	5.8	5.7	5.7	6.4
-KILOGRAMS/KILOMETER-										
Pollock	0.0	0.0	0.0	162.6	0.0	12.0	27.7	0.0	13.0	61.0
Pacific Cod	8.7	34.3	11.5	22.8	12.7	12.7	1.2	7.8	6.4	87.4
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.7	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	9.6
Sablefish	0.0	0.0	0.0	0.7	7.8	8.6	1.5	4.7	2.2	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	33.6
Other Roundfish	0.3	4.4	0.2	0.0	1.2	0.0	0.0	0.0	0.0	1.7
TOTAL ROUNDFISH	9.0	38.7	14.0	199.4	28.9	33.3	30.4	12.5	24.2	193.2
Arrowtooth Flndr	13.1	116.1	125.6	1625.3	77.9	220.9	86.9	100.7	174.9	117.6
Flathead Sole	137.4	100.4	87.7	94.8	28.7	65.6	31.6	17.4	259.1	29.4
Rock Sole	0.0	0.0	0.0	0.2	28.7	0.0	0.0	0.0	0.0	15.2
Rex Sole	0.0	0.0	0.0	0.0	2.0	12.0	51.4	55.6	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	17.9	59.3	20.8	0.0	0.0
Pac Halibut	0.0	29.9	34.8	7.3	15.7	8.3	32.6	56.8	13.5	23.3
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Flatfish	0.0	0.0	0.0	0.0	123.0	41.9	0.0	0.0	0.0	327.5
TOTAL FLATFISH	150.5	246.4	248.1	1727.7	275.8	366.6	261.8	251.3	447.5	512.9
Skates	0.8	25.5	10.3	3.2	14.2	3.7	9.8	22.3	36.0	39.7
Spiny Dogfish	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	16.3	8.3	1.7	0.0	0.0	0.0	0.2	0.2	0.0	0.0
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	2.7	2.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scallop	0.0	0.0	0.0	0.0	0.0	1.7	1.5	0.2	0.0	0.0
Other Inverts	8.7	0.2	14.5	87.9	17.4	35.8	17.4	7.3	21.3	54.1
TOTAL INVERTS	27.8	10.5	18.4	87.9	17.4	37.5	19.1	7.8	21.3	54.1
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	188.0	321.1	291.9	2018.2	336.3	441.1	321.1	293.9	529.0	800.9

-Continued-

Appendix B. (page 4 of 40)

Haul	31	32	33	34	35	36	37	38	39	40
Location	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD
Month/Day/Year	06/30/94	06/30/94	06/30/94	06/30/94	06/30/94	07/01/94	07/01/94	07/01/94	07/01/94	07/01/94
Station	chj	chk	chg	chl	chf	che	chb	cha	cha	chb
Longitude Start	152 22.8	152 18.6	152 12.0	152 14.5	152 19.7	152 26.8	152 22.3	152 25.9	152 27.0	152 22.7
Latitude Start	57 43.7	57 43.7	57 41.9	57 43.9	57 41.2	57 40.8	57 39.4	57 37.0	57 36.3	57 39.5
Heading, Degrees	105	235	86	155	40	40	40	31	45	40
Average Depth (m)	106	146	110	183	143	16	99	53	18	106
Distance Fished (km)	1.7	1.9	1.9	1.9	1.9	1.1	1.9	1.9	0.9	1.9
Bottom Temperature	6.1	6.1	6.5	6.3	5.7	7.3	5.9	7.	7.3	5.8
KILOGRAMS/KILOMETER										
Pollock	41.9	0.0	84.3	0.0	0.0	22.9	64.7	103.8	2.4	0.0
Pacific Cod	22.3	107.0	21.6	2.0	1.7	143.3	2.0	30.9	2.4	2.9
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.2	0.2	12.2	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfsh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.8	2.9	0.0	1.2	0.0	0.0	0.0	0.0	1.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	15.8	402.4	5.6	0.0	0.0	0.0	4.7	0.0	44.1	34.0
Other Roundfish	0.0	11.5	0.0	15.4	0.0	4.1	11.8	3.9	8.3	1.7
TOTAL ROUNDFISH	80.8	523.9	111.7	18.9	14.0	170.2	83.0	138.6	58.3	38.7
Arrowtooth Flndr	41.9	950.8	45.8	897.4	121.5	3.7	46.0	51.9	9.3	45.3
Flathead Sole	83.8	987.5	49.7	81.6	124.7	7.8	516.8	467.1	75.4	477.1
Rock Sole	209.5	109.7	19.1	0.0	0.0	3.7	9.3	0.0	6.4	19.8
Rex Sole	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	28.8	193.2	0.0	152.1	37.7	4.9	0.0	0.0	30.4	0.0
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	37.0	0.0	0.0	79.6
Yellowfin Sole	178.0	0.0	0.0	0.0	0.0	102.9	32.3	350.2	150.9	102.1
Other Flatfish	0.0	0.0	0.0	0.0	0.0	315.5	0.0	77.9	125.9	0.0
TOTAL FLATFISH	542.1	2241.3	128.8	1131.1	283.9	438.4	641.5	947.1	398.2	724.0
Skates	37.0	8.8	16.4	14.5	7.8	0.0	4.2	100.4	8.3	18.1
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.0	65.1	2.0	12.0	86.2	1.2	26.9	0.7	0.0	5.1
Red King Crab	35.9	8.6	0.0	0.0	0.0	0.4	15.2	1.2	0.0	0.0
Dungeness Crab	1.1	0.0	0.0	0.0	0.0	10.2	0.0	65.6	7.8	0.2
Shrimp	0.0	0.0	0.0	1.5	0.2	0.0	9.3	0.0	0.0	5.6
Scallop	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Other Inverts	166.0	91.4	78.9	132.7	2.9	26.5	9.3	0.0	37.7	0.0
TOTAL INVERTS	203.0	165.1	80.8	146.2	89.4	38.4	60.7	67.8	45.6	11.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH (kg/km)	862.9	2939.1	337.7	1310.6	395.1	647.0	789.4	1254.0	510.4	791.8

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Appendix B. (page 5 of 40)

Haul	41	42	43	44	45	46	47	48	49	50	
Location	N.E.KOD	E.KOD									
Month/Day/Year	07/01/94	07/03/94	07/03/94	07/03/94	07/03/94	07/03/94	07/03/94	07/03/94	07/03/94	07/04/94	
Station	chj	ugf	ugg	ugj	486b	486a	510b	ugm	ugi	ugac	
Longitude Start	152 22.9	152 34.1	152 30.3	152 27.2	152 25.8	152 29.2	152 31.7	152 32.1	152 32.5	152 59.7	
Latitude Start	57 43.8	57 24.4	57 23.0	57 22.3	57 18.7	57 17.9	57 17.2	57 18.9	57 21.3	57 27.4	
Heading, Degrees	131	185	88	198	17	26	14	353	348	51	
Average Depth (m)	91	84	68	69	71	97	101	101	95	37	
Distance Fished (km)	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7	
Bottom Temperature	6.5	6.3	6.8	6.8	6.8	6.4	6.3			4.	
KILOGRAMS/KILOMETER											
Pollock	70.8	140.3	365.2	0.0	0.0	328.9	132.0	154.5	57.8	2.4	
Pacific Cod	50.6	1.7	9.8	13.0	10.3	14.0	16.4	1.5	10.3	0.0	
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sculpins	66.1	7.8	0.0	59.0	0.0	11.5	0.0	0.0	0.0	0.0	
Other Roundfish	9.5	0.0	2.7	29.4	0.0	3.7	5.6	5.9	14.7	0.5	
TOTAL ROUNDFISH	197.0	149.9	377.7	101.4	10.3	358.1	154.3	161.9	82.8	3.0	
45	Arrowtooth Flndr	94.2	132.5	168.5	388.9	86.0	147.9	155.5	239.0	121.7	0.3
	Flathead Sole	66.1	93.6	56.1	59.0	33.3	57.6	116.6	70.3	104.3	2.4
	Rock Sole	188.6	13.7	98.2	11.8	62.0	41.1	7.8	10.5	8.6	0.0
	Rex Sole	9.5	0.0	0.0	2.9	0.0	2.0	0.0	15.9	0.0	0.0
	Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Pac Halibut	33.2	47.0	13.0	71.3	22.0	25.0	2.2	19.3	7.8	0.0
	Starry Flndr	0.0	0.0	0.0	0.0	47.8	0.0	0.0	0.0	0.0	12.8
	Yellowfin Sole	169.8	46.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
	Other Flatfish	0.0	62.5	308.8	347.8	66.9	0.0	0.0	0.0	6.9	0.0
TOTAL FLATFISH	561.4	396.0	644.6	881.7	317.9	273.6	282.2	355.1	249.3	17.1	
Skates	18.0	52.7	6.9	25.2	9.1	13.7	13.0	13.2	54.1	0.0	
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tanner Crab	1.6	0.0	0.0	0.0	0.0	1.7	3.4	5.6	0.2	0.0	
Red King Crab	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Dungeness Crab	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Shrimp	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	
Scallop	0.5	0.0	2.2	2.0	0.0	0.0	0.0	0.0	1.0	0.0	
Other Inverts	62.0	60.7	150.9	153.3	59.5	18.9	209.9	70.3	217.2	0.8	
TOTAL INVERTS	83.8	61.2	153.1	155.3	59.5	20.6	213.3	75.9	218.7	1.1	
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL CATCH(kg/km)	860.2	659.8	1182.2	1163.6	396.8	665.9	662.8	606.2	605.0	21.2	

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Appendix B. (page 6 of 40)

Haul	51	52	53	54	55	56	57	58	59	60
Location	E.KOD									
Month/Day/Year	07/04/94	07/04/94	07/04/94	07/04/94	07/04/94	07/04/94	07/05/94	07/05/94	07/05/94	07/05/94
Station	ugab	ugaa	ugb	ugc	ugd	uge	510c	534b	511a	511b
Longitude Start	152 54.0	152 51.7	152 45.3	152 42.3	152 37.0	152 36.2	152 33.3	152 32.7	152 28.2	152 24.8
Latitude Start	57 28.5	57 29.8	57 28.3	57 27.8	57 26.0	57 24.9	57 12.1	57 11.1	57 12.6	57 12.7
Heading, Degrees	95	135	186	131	303	307	16	357	340	0
Average Depth (m)	66	77	90	91	95	99	95	102	102	79
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9
Bottom Temperature	4.	3.9	5.8	6.2	6.5	6.3	5.6	5.5	6.3	6.3
KILOGRAMS/KILOMETER										
Pollock	426.4	89.6	48.7	40.7	0.0	76.4	57.8	19.1	0.0	0.0
Pacific Cod	5.1	12.7	14.9	8.1	1.2	8.8	8.8	16.2	11.3	44.1
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	4.4
Sculpins	12.7	61.7	44.8	32.6	64.7	69.8	28.9	0.0	0.0	0.0
Other Roundfish	0.7	0.5	0.0	2.0	1.7	7.1	0.0	0.0	2.0	0.0
TOTAL ROUNDFISH	445.0	165.3	108.7	83.5	67.6	162.9	96.7	35.3	13.2	48.5
94										
Arrowtooth Flndr	0.0	56.1	122.2	64.9	129.1	207.2	330.2	622.1	251.8	1103.6
Flathead Sole	12.7	61.7	635.1	276.0	225.8	327.0	214.6	38.2	181.2	0.0
Rock Sole	15.9	0.0	0.0	0.0	53.9	0.0	0.0	0.0	0.0	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.7	43.1	40.4	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.1	0.0	0.0
Pac Halibut	2.2	0.0	20.6	49.7	7.6	5.1	2.4	3.7	30.1	26.9
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	44.6	117.8	53.6	0.0	172.2	0.0	0.0	0.0	0.0	0.0
Other Flatfish	0.0	0.0	244.2	259.9	75.2	120.0	0.0	0.0	221.7	112.2
TOTAL FLATFISH	75.4	235.6	1075.7	650.5	663.7	659.3	547.9	750.2	725.2	1242.7
Skates	0.0	0.0	57.8	98.9	98.7	117.8	18.9	0.0	1.2	0.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	27.2	43.4	1.7	49.2	0.2	47.5	0.0	0.0	0.0	0.0
Red King Crab	2.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.7	0.5	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
Scallop	0.0	0.0	2.7	0.0	0.0	2.4	0.0	0.2	0.0	12.7
Other Inverts	0.0	8.3	8.3	8.1	0.0	0.0	35.0	7.6	51.4	60.3
TOTAL INVERTS	30.1	55.1	12.7	57.3	0.2	50.9	35.0	7.8	51.4	73.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	550.6	456.0	1255.0	890.3	830.3	991.0	700.2	793.3	791.1	1364.2

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Appendix B. (page 7 of 40)

Haul	61	62	63	64	65	66	67	68	69	70
Location	E.KOD	E.KOD	E.KOD	E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	E.KOD	E.KOD	E.KOD
Month/Day/Year	07/05/94	07/05/94	07/06/94	07/06/94	07/06/94	07/06/94	07/06/94	07/06/94	07/06/94	07/06/94
Station	535b	535a	533a	559	586	585x	618a	654	619	587
Longitude Start	152 25.2	152 26.1	152 45.7	152 43.8	152 56.2	153 1.6	152 51.2	152 43.3	152 45.6	152 42.5
Latitude Start	57 9.8	57 10.0	57 8.6	57 4.5	56 57.1	56 57.0	56 56.0	56 51.5	56 54.8	56 58.7
Heading, Degrees	357	0	29	16	27	90	15	303	16	353
Average Depth (m)	128	137	139	154	132	135	123	101	130	146
Distance Fished (km)	1.9	1.9	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature	5.3	5.2	5.1	5.	5.2	5.4	5.1	5.2	5.1	5.1
-----KILOGRAMS/KILOMETER-----										
Pollock	155.8	58.3	153.2	0.0	189.1	360.8	137.9	0.0	0.0	0.0
Pacific Cod	3.7	18.9	35.1	0.0	2.7	14.0	4.9	16.2	0.0	0.0
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
Rougheye Rkfish	0.0	0.0	2.4	4.2	0.0	0.0	0.0	0.0	0.0	2.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	1.0	0.0	1.4	0.0	0.0	0.0	1.5	0.0	2.2	0.0
Sablefish	0.0	0.0	1.6	0.0	0.0	0.0	3.2	0.0	0.0	2.4
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	0.0	8.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
Other Roundfish	0.0	0.0	15.2	0.0	3.9	1.7	8.8	0.0	0.7	1.5
TOTAL ROUNDFISH	160.4	77.2	217.2	7.8	195.7	376.4	156.3	16.2	3.7	5.9
L4										
Arrowtooth Flndr	279.2	314.7	225.6	578.8	196.2	51.4	388.0	1255.5	141.1	133.0
Flathead Sole	6.6	58.3	217.4	45.1	77.2	68.6	69.1	10.0	44.8	50.7
Rock Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rex Sole	21.1	81.6	0.0	0.0	45.6	0.0	0.0	179.3	1.7	0.0
Dover Sole	0.0	35.0	0.0	0.0	0.0	42.9	60.3	0.0	25.7	0.0
Pac Halibut	7.6	25.5	31.0	25.5	19.8	11.8	17.4	6.1	0.0	0.0
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Flattfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	314.5	515.1	474.1	649.3	338.7	174.6	534.7	1450.9	213.3	183.7
Skates	1.2	0.5	3.0	21.6	3.7	2.0	17.4	2.2	5.9	24.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	9.1	18.9	0.3	16.2	4.2	0.2	3.9	1.7	9.1	5.6
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.0	0.0	0.0	0.5	0.7	0.0	0.0	0.0	0.0	0.5
Scallop	0.7	0.2	0.5	0.0	0.2	0.0	0.0	7.1	5.4	0.5
Other Inverts	90.9	2.9	22.0	14.9	14.7	34.3	2.7	0.0	16.2	12.7
TOTAL INVERTS	100.7	22.0	22.9	31.6	19.8	34.5	6.6	8.8	30.6	19.3
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	576.8	614.8	717.1	710.3	557.9	587.6	714.9	1478.1	253.5	232.9

-Continued-

Appendix B. (page 8 of 40)

Haul	71	72	73	74	75	76	77	78	79	80	
Location	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	
Month/Day/Year	07/07/94	07/07/94	07/07/94	07/07/94	07/07/94	07/07/94	07/07/94	07/07/94	07/08/94	07/08/94	
Station	560	588	620	655	695	696	656	621	533b	534a	
Longitude Start	152 30.6	152 36.3	152 34.6	152 33.5	152 33.2	152 25.9	152 25.4	152 27.2	152 43.4	152 30.6	
Latitude Start	57 4.2	56 59.8	56 54.7	56 50.8	56 54.3	56 45.7	56 51.0	56 54.8	57 9.5	57 8.6	
Heading, Degrees	191	180	185	185	27	15	11	30	32	357	
Average Depth (m)	139	155	157	148	148	177	161	152	139	121	
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7	
Bottom Temperature	5.1	5.	5.	4.9	4.9	4.9	5.1	5.1	5.1	5.4	
KILOGRAMS/KILOMETER											
Pollock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.5	361.1	
Pacific Cod	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6	37.0	
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rougheye Rkfish	0.0	4.4	11.5	1.0	0.7	19.8	2.4	0.2	1.7	0.0	
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	1.0	0.2	0.2	0.0	0.0	
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	
Sablefish	2.0	2.9	3.7	0.0	5.1	41.9	0.0	0.0	2.7	2.4	
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	
Sculpins	0.0	0.0	0.7	0.7	1.0	0.0	0.2	1.0	0.0	0.0	
Other Roundfish	2.4	1.2	2.7	0.2	1.0	0.5	0.2	2.2	8.6	0.0	
TOTAL ROUNDFISH	5.6	8.6	18.6	2.0	7.8	63.7	3.7	3.7	104.1	402.2	
48	Arrowtooth Flndr	140.8	147.9	99.4	74.9	87.7	48.7	53.4	109.2	569.9	361.1
	Flathead Sole	76.4	28.7	22.0	35.8	37.5	11.3	7.1	8.3	186.4	54.7
	Rock Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Rex Sole	0.0	0.0	0.0	3.7	4.2	2.0	2.0	7.1	0.0	16.3
	Dover Sole	36.2	0.0	3.2	0.0	0.0	0.0	7.1	12.2	20.8	65.6
	Pac Halibut	0.0	0.0	8.8	2.0	0.0	0.0	0.0	4.2	12.5	9.3
	Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other Flatfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL FLATFISH	253.5	176.6	133.5	116.3	129.3	62.0	69.6	141.1	789.6	507.0
Skates	9.6	5.6	10.8	18.9	31.8	3.9	4.7	4.7	16.4	4.6	
	Spiny Dogfish	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Tanner Crab	1.0	10.5	10.3	13.0	18.6	14.7	10.0	3.4	1.0	0.0
	Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Shrimp	0.0	0.7	1.0	1.7	2.4	0.2	0.2	0.0	0.0	0.0
	Scallop	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other Inverts	32.1	10.3	3.2	4.9	10.3	14.7	2.9	6.6	0.0	76.5
	TOTAL INVERTS	33.6	21.8	14.5	19.6	31.4	29.6	13.2	10.0	1.0	76.5
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	302.2	214.3	177.3	156.8	200.3	159.2	91.1	159.4	911.1	990.3	

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Appendix B. (page 9 of 40)

Haul	81	82	83	84	85	86	87	88	89	90	
Location	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	
Month/Day/Year	07/08/94	07/08/94	07/08/94	07/09/94	07/09/94	07/09/94	07/09/94	07/09/94	07/09/94	07/09/94	
Station	535c	535d	561	k1b	kla	k1c	k1l	kli	kld	klh	
Longitude Start	152 28.4	152 25.0	152 26.6	152 59.0	153 4.7	152 56.0	152 46.0	152 50.5	152 44.8	152 55.2	
Latitude Start	57 7.8	57 7.8	57 4.2	57 18.6	57 18.3	57 17.7	57 12.4	57 14.4	57 16.9	57 13.8	
Heading, Degrees	15	20	37	157	82	169	300	303	192	249	
Average Depth (m)	148	143	148	80	91	91	132	117	22	117	
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.1	1.9	
Bottom Temperature	5.2	5.2	5.1	6.2	3.6	6.	5.1	5.5	7.6	5.8	
KILOGRAMS/KILOMETER											
Pollock	108.3	221.2	23.3	35.8	43.1	57.1	65.9	127.4	0.0	76.4	
Pacific Cod	10.5	8.8	2.2	17.4	24.2	27.9	16.7	17.1	0.0	24.0	
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rougheye Rkfish	0.0	0.0	2.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0	
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sablefish	1.2	0.0	0.0	0.0	0.0	1.7	1.7	0.0	0.0	1.0	
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Salmon	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sculpins	0.0	0.0	0.0	0.0	11.5	0.0	0.0	0.0	0.0	0.0	
Other Roundfish	0.0	0.0	0.0	4.7	2.2	0.0	32.6	50.5	0.0	22.0	
TOTAL ROUNDFISH	120.0	233.4	27.9	57.8	81.6	86.7	116.8	195.0	0.0	123.4	
64	Arrowtooth Flndr	560.9	381.6	337.5	100.2	28.7	106.1	420.0	162.6	0.0	133.7
	Flathead Sole	68.8	0.0	93.1	279.2	97.7	85.5	90.6	77.6	18.0	165.8
	Rock Sole	0.0	0.0	0.0	0.0	0.0	0.0	20.6	17.6	119.6	0.0
	Rex Sole	19.6	0.0	11.8	0.0	0.0	0.0	0.0	14.2	0.0	0.0
	Dover Sole	34.5	0.0	14.5	0.0	0.0	0.0	47.8	84.7	0.0	50.9
	Pac Halibut	76.2	11.5	8.1	2.0	0.0	0.0	0.0	1.5	38.8	4.7
	Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	597.2	0.0
	Yellowfin Sole	0.0	0.0	0.0	50.2	40.2	34.5	0.0	0.0	0.0	0.0
	Other Flatfish	0.0	0.0	0.0	42.9	0.0	18.4	0.0	0.0	0.0	0.0
TOTAL FLATFISH	760.0	393.1	464.9	474.4	166.5	244.4	579.0	358.3	773.5	355.1	
Skates	2.9	3.7	2.7	100.2	0.0	21.6	2.0	5.4	0.0	60.3	
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Elasmobrh	0.0	0.0	0.0	67.4	0.0	0.0	0.0	0.0	0.0	0.0	
Tanner Crab	0.0	7.8	2.2	1.0	6.9	1.5	0.2	0.2	0.0	0.7	
Red King Crab	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	
Shrimp	0.0	0.0	0.0	0.2	0.0	2.0	0.0	0.0	0.0	0.0	
Scallop	0.0	0.0	0.0	0.2	0.2	1.5	0.2	0.0	0.0	0.0	
Other Inverts	7.3	0.0	4.4	32.3	6.9	52.9	65.9	76.7	0.0	116.6	
TOTAL INVERTS	7.3	7.8	6.6	33.8	14.7	57.8	66.4	76.9	8.6	117.3	
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL CATCH(kg/km)	890.3	638.0	502.1	733.5	262.8	410.5	764.2	635.6	782.1	656.1	

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Appendix B. (page 10 of 40)

Haul	91	92	93	94	95	96	97	98	99	100
Location	E.KOD	E.KOD	E.KOD	S.E.KOD						
Month/Day/Year	07/09/94	07/10/94	07/10/94	07/10/94	07/10/94	07/10/94	07/10/94	07/10/94	07/11/94	07/11/94
Station	klg	kle	kif	thn	thm	thl	thj	thk	thh	thd
Longitude Start	152 59.1	153 8.1	153 3.6	153 20.0	153 21.5	153 23.9	153 27.5	153 29.7	153 24.4	153 28.5
Latitude Start	57 12.3	57 10.9	57 12.2	57 10.0	57 8.8	57 7.2	57 3.7	57 8.7	57 2.7	56 58.9
Heading, Degrees	235	51	249	175	222	33	345	195	194	350
Average Depth (m)	121	117	121	113	123	123	113	102	110	128
Distance Fished (km)	1.9	1.9	1.9	1.7	1.9	1.7	1.9	1.9	1.9	1.9
Bottom Temperature	5.7	5.7	5.7	4.9	4.7	5.1	5.2	4.7	5.2	5.2
KILOGRAMS/KILOMETER										
Pollock	133.0	0.0	0.0	495.8	98.9	104.5	43.4	66.9	35.0	36.5
Pacific Cod	9.3	1.7	2.0	59.1	66.6	7.3	32.3	65.1	23.8	27.7
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	1.0	0.0	32.1	0.2	0.8	0.2	0.7	0.0	1.2
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	3.2	0.0	0.0	0.8	2.4	3.5	1.5	0.0	1.2	1.7
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	0.0	15.2	148.0	59.3	0.0	15.4	0.0	21.8	0.0
Other Roundfish	13.2	4.9	11.0	1.1	1.0	3.0	1.2	4.7	16.4	26.5
TOTAL ROUNDFISH	158.7	7.6	28.2	736.9	228.5	119.2	94.1	137.4	98.2	93.6
Arrowtooth Flndr	199.6	155.8	182.2	400.0	405.6	278.4	210.4	334.1	153.1	243.5
Flathead Sole	243.9	382.3	607.4	120.0	98.9	111.3	148.4	133.7	74.2	158.2
Rock Sole	0.0	14.2	0.0	0.0	0.0	0.0	20.1	0.0	6.6	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	17.4	0.0
Pac Halibut	12.5	15.4	33.1	13.6	16.2	2.2	18.6	0.0	7.1	6.4
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.9	0.0	0.0
Yellowfin Sole	0.0	0.0	0.0	111.8	0.0	0.0	12.5	0.0	0.0	0.0
Other Flatfish	0.0	0.0	0.0	80.0	29.6	41.9	30.9	0.0	0.0	0.0
TOTAL FLATFISH	456.0	567.7	822.7	725.5	550.3	433.8	447.0	534.7	258.4	408.0
Skates	30.9	11.8	11.8	0.0	0.0	0.0	16.4	0.0	0.0	13.5
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	2.7	1.2	2.4	32.7	12.2	44.6	123.0	66.1	17.6	23.3
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	3.7	3.4	6.1	0.0	0.0	0.0	1.5	0.0	0.5	0.0
Scallop	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0
Other Inverts	13.0	42.4	112.2	48.2	0.0	17.4	6.1	0.0	32.8	21.3
TOTAL INVERTS	19.3	47.0	120.7	80.8	12.2	62.0	130.5	66.4	51.2	44.6
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	665.0	634.1	983.4	1543.3	791.1	615.0	688.0	738.4	407.8	559.6

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Appendix B. (page 11 of 40)

Haul	101	102	103	104	105	106	107	108	109	110
Location	S.E.KOD	S.E.KOD	S.E.KOD	S.W.KOD						
Month/Day/Year	07/11/94	07/11/94	07/12/94	07/12/94	07/13/94	07/13/94	07/13/94	07/13/94	07/13/94	07/13/94
Station	thf	thi	tha	684b	646b	646d	646c	646a	645b	682b
Longitude Start	153 35.1	153 35.3	153 42.3	154 13.5	154 22.3	154 20.3	154 25.7	154 27.0	154 29.5	154 29.5
Latitude Start	57 1.3	57 4.0	56 53.4	56 46.0	56 51.0	56 49.0	56 48.3	56 50.0	56 50.2	56 46.5
Heading, Degrees	69	121	60	45	202	215	0	0	202	210
Average Depth (m)	73	91	53	90	59	53	64	66	64	68
Distance Fished (km)	1.7	1.9	1.9	1.3	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature	5.7	5.5	6.3	8.4	7.7	7.6	8.1	8.1	7.8	8.6
KILOGRAMS/KILOMETER										
Pollock	39.2	34.3	175.9	45.5	8.8	41.1	159.7	179.8	618.9	46.5
Pacific Cod	19.6	26.0	69.3	12.9	6.9	11.3	0.0	14.7	3.7	3.4
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Roundfish	2.4	2.4	0.0	0.3	5.1	0.0	0.7	2.9	0.0	0.0
TOTAL ROUNDFISH	77.0	63.2	245.2	59.8	20.8	52.4	160.4	197.4	622.6	50.0
Arrowtooth Flndr	53.9	128.6	87.9	37.8	39.2	67.6	66.1	45.1	111.4	63.2
Flathead Sole	73.5	385.5	43.8	27.3	222.1	153.6	50.2	95.0	160.9	73.0
Rock Sole	0.0	0.0	219.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	18.0	10.0	57.8	53.9	71.3	45.6	56.8	52.9	4.2	42.1
Starry Flndr	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	63.7	128.6	219.7	0.0	26.2	6.9	0.0	0.0	0.0	0.0
Other Flatfish	24.5	0.0	351.7	7.7	4.4	6.1	11.8	26.0	40.2	26.7
TOTAL FLATFISH	233.5	652.7	980.7	133.3	363.2	279.7	184.9	219.0	316.7	218.2
Skates	0.0	26.2	8.6	123.2	20.3	7.3	208.4	84.3	36.7	50.7
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.5	0.2	0.2	0.3	0.7	0.2	1.5	0.7	0.2	0.0
Red King Crab	0.0	0.0	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.3	0.7	0.0	0.0	0.0	0.0	0.2	0.5	0.0	0.0
Scallop	1.6	0.0	21.8	0.0	10.3	9.1	10.0	16.2	6.4	4.2
Other Inverts	95.8	29.9	29.4	96.2	21.6	39.2	8.8	35.3	18.6	9.3
TOTAL INVERTS	98.2	30.9	80.6	96.6	32.6	48.5	20.6	52.7	25.2	13.5
Other	6.8	0.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	9.8
TOTAL CATCH(kg/km)	415.6	773.0	1315.0	423.4	436.9	388.0	574.3	553.3	1001.2	342.2

-Continued-

Appendix B. (page 12 of 40)

Haul	111	112	113	114	115	116	117	118	119	120
Location	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD
Month/Day/Year	07/13/94	07/13/94	07/13/94	07/13/94	07/13/94	07/13/94	07/14/94	07/14/94	07/14/94	07/14/94
Station	683a	683b	683d	684c	684a	alb	ald	alc	ala	alg
Longitude Start	154 27.6	154 23.0	154 22.8	154 18.9	154 18.5	154 13.0	154 11.4	154 7.7	154 9.1	154 5.8
Latitude Start	56 45.1	56 45.9	56 44.1	56 44.2	56 45.5	56 50.5	56 52.7	56 49.3	56 46.7	56 51.5
Heading, Degrees	55	165	96	85	18	125	184	10	15	30
Average Depth (m)	59	64	71	69	49	44	59	75	64	59
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature	8.6	7.8	7.8	8.4	7.8	7.8	4.5	4.5	5.5	4.2
KILOGRAMS/KILOMETER										
Pollock	43.1	569.9	492.8	0.0	69.8	0.0	107.8	200.1	0.0	295.4
Pacific Cod	2.2	0.0	6.1	11.8	4.2	2.0	25.0	96.0	15.9	26.9
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.2	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	0.0	0.0	0.0	4.7	41.4	8.3	92.3	0.0	21.3
Other Roundfish	0.5	2.0	1.7	0.0	0.0	0.0	2.4	19.3	19.6	0.0
TOTAL ROUNDFISH	46.0	571.9	501.6	11.8	78.6	43.6	143.5	409.8	36.7	343.6
5										
Arrowtooth Flndr	111.0	31.4	125.9	545.0	131.8	8.3	70.3	0.0	19.6	35.5
Flathead Sole	64.7	375.5	104.8	378.9	93.1	25.5	58.0	553.8	147.7	401.7
Rock Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rex Sole	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	37.7
Pac Halibut	40.4	87.9	88.4	709.1	111.9	6.9	18.6	69.8	54.1	22.3
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	15.4	17.4	0.0	0.0	46.5	63.4	37.2	53.9	27.9	35.5
Other Flatfish	6.1	100.9	7.8	33.3	49.5	60.0	22.8	0.0	0.0	35.5
TOTAL FLATFISH	242.2	613.0	327.0	1666.2	432.8	165.8	207.0	677.5	249.3	568.2
Skates	21.6	7.1	23.3	60.7	30.4	18.4	0.0	0.0	33.3	0.0
Spiny Dogfish	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	79.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.0	0.0	0.0	0.0	0.0	0.0	1.7	68.1	8.1	4.9
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9	0.2	5.6
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0
Scallop	5.9	17.1	3.9	1.7	10.3	21.8	3.7	0.7	0.0	1.5
Other Inverts	2.2	48.7	11.5	307.4	168.5	9.6	5.6	115.4	614.8	2.4
TOTAL INVERTS	8.1	65.9	15.4	309.1	178.8	31.4	11.0	215.8	623.1	14.5
Other	0.0	0.0	0.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	317.9	1257.9	946.9	2066.2	724.0	259.1	361.5	1303.0	942.5	926.3

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Appendix B. (page 13 of 40)

Haul	121	122	123	124	125	126	127	128	129	130
Location	S.W.KOD									
Month/Day/Year	07/14/94	07/14/94	07/14/94	07/14/94	07/15/94	07/15/94	07/15/94	07/15/94	07/15/94	07/15/94
Station	alj	alk	alm	alf	alh	ali	all	alo	alr	alq
Longitude Start	154 0.8	153 56.2	153 58.2	154 9.2	154 6.4	154 4.8	154 5.0	153 59.4	153 49.2	153 54.8
Latitude Start	56 54.5	56 56.1	56 56.3	56 51.6	56 54.0	56 54.7	56 55.3	56 59.3	57 7.1	57 4.7
Heading, Degrees	220	250	222	0	185	195	35	228	235	219
Average Depth (m)	71	64	62	57	66	77	84	133	124	176
Distance Fished (km)	1.9	1.5	1.9	1.9	1.9	1.9	1.7	1.3	1.9	1.5
Bottom Temperature	5.2	5.4	5.4	4.7	4.8	4.4	2.7	2.1	2.3	2.1
-KILOGRAMS/KILOMETER-										
Pollock	571.9	1172.6	523.2	27.4	503.3	236.6	628.6	387.3	383.5	126.1
Pacific Cod	21.6	11.6	10.3	15.2	12.5	27.2	27.2	15.4	26.0	3.1
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	1.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0
Sablefish	2.4	1.2	0.0	0.0	0.0	1.0	0.0	0.0	6.6	3.4
Herring	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	0.0	7.6	0.0	0.0	59.3	23.7	18.5	50.5	0.0
Other Roundfish	0.0	0.0	2.0	0.0	0.0	12.0	0.0	0.0	13.2	63.7
TOTAL ROUNDFISH	596.9	1185.4	543.5	42.6	515.8	339.0	679.5	421.3	479.8	196.2
5										
Arrowtooth Flndr	97.2	19.6	0.0	11.8	61.7	16.2	47.4	110.6	20.1	318.7
Flathead Sole	207.0	391.0	153.1	137.2	92.3	139.9	201.7	186.1	262.6	0.0
Rock Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	0.0	8.0
Pac Halibut	3.7	21.7	9.1	33.6	1.2	0.0	0.0	0.0	21.3	0.0
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	54.9	317.5	217.0	36.5	51.4	37.7	23.7	0.0	80.8	0.0
Other Flatfish	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	381.1	749.8	379.1	219.0	206.7	193.7	272.7	310.7	384.8	326.7
Skates	98.9	0.0	0.0	0.0	0.0	10.5	0.0	0.0	0.0	0.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	6.6	2.1	0.5	4.9	24.7	73.7	34.0	20.6	23.5	57.3
Red King Crab	7.3	5.8	0.0	7.8	0.0	0.0	0.0	0.0	0.0	4.3
Dungeness Crab	0.5	1.2	2.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.8	8.1	2.1
Scallop	0.0	2.4	0.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
Other Inverts	0.0	0.0	0.0	5.9	20.6	25.5	6.0	11.9	0.0	4.6
TOTAL INVERTS	14.5	11.6	3.2	20.3	45.3	99.2	43.5	35.3	31.6	68.3
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	1091.4	1946.8	925.8	281.9	767.8	642.4	995.7	767.3	896.2	591.2

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Appendix B. (page 14 of 40)

Haul	131	132	133	134	135	136	137	138	139	140
Location	S.W.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	AKUN BAY	AKUN BAY	AKUN BAY	AKUN BAY
Month/Day/Year	07/15/94	07/18/94	07/18/94	07/18/94	07/18/94	07/19/94	07/31/94	07/31/94	07/31/94	07/31/94
Station	alp	614	thc	thg	615	651	688	ANA	AND	ANE
Longitude Start	153 57.5	153 27.8	153 30.3	153 28.1	153 24.2	153 14.9	153 40.1	165 29.9	165 31.5	165 26.4
Latitude Start	57 2.5	56 54.6	56 56.4	57 0.3	56 54.3	56 50.4	56 43.3	54 13.8	54 15.0	54 15.2
Heading, Degrees	212	5	5	41	5	343	90	71	75	104
Average Depth (m)	152	139	133	124	137	174	150	77	49	117
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9
Bottom Temperature	2.1	4.3	4.4	4.5	4.5	4.2	4.9	5.9	6.	5.5
KILOGRAMS/KILOMETER										
Pollock	111.4	284.4	259.4	93.1	137.2	74.2	41.6	0.0	0.0	0.0
Pacific Cod	7.8	33.8	15.9	29.4	9.6	16.9	12.2	31.4	623.6	26.5
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.2	0.0	0.0	7.3	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Sablefish	23.8	1.0	3.9	2.0	1.5	1.7	0.0	0.0	0.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	4.2	45.1	0.0	0.0	0.0	0.0	0.0	62.7	71.3	213.6
Other Roundfish	1.7	6.4	0.0	8.6	2.4	0.0	14.7	25.0	0.0	4.9
TOTAL ROUNDFISH	148.9	370.6	279.7	133.0	150.6	100.2	68.6	119.0	694.8	246.4
Arrowtooth Flndr	69.6	220.7	181.5	101.2	184.7	388.0	341.4	12.5	0.2	40.7
Flathead Sole	66.1	73.0	147.0	80.8	56.6	152.6	27.7	25.0	0.0	5.9
Rock Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	225.6	370.3	233.7
Rex Sole	0.0	18.6	0.0	0.0	18.4	0.0	0.0	0.0	0.0	0.0
Dover Sole	14.0	63.7	0.0	0.0	37.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	0.0	23.8	19.1	26.9	5.6	40.4	42.1	14.0	4.2	64.7
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Flatfish	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0
TOTAL FLATFISH	149.6	399.7	347.5	208.9	302.2	581.0	420.0	277.0	374.7	344.9
Skates	0.0	1.7	4.4	0.0	36.0	4.4	9.6	0.0	0.0	0.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	13.7	5.6	25.0	32.8	4.7	0.0	0.0	0.0	0.0	0.0
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	2.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
Scallop	0.0	0.0	0.2	0.2	0.0	0.0	0.0	10.0	1.0	22.5
Other Inverts	1.0	1.7	11.8	56.6	26.2	42.1	23.5	99.9	35.8	137.6
TOTAL INVERTS	17.1	7.3	37.0	89.6	30.9	42.1	24.0	110.0	36.7	160.2
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	315.7	779.3	668.6	431.6	519.7	727.7	522.2	506.0	1106.3	751.4

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Haul	141	142	143	144	145	146	147	148	149	150
Location	AKUTAN	AKUTAN	AKUTAN	AKUTAN	AKUTAN	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER
Month/Day/Year	07/31/94	07/31/94	07/31/94	08/01/94	08/01/94	08/01/94	08/02/94	08/02/94	08/02/94	08/02/94
Station	AKL	AKG	AKD	AKA	AKC	BIU	BIK	BIN	BIG	BIB
Longitude Start	165 44.7	165 44.5	165 42.0	165 42.1	165 42.8	165 58.9	166 20.1	166 11.6	166 23.2	166 30.5
Latitude Start	54 15.2	54 13.9	54 12.1	54 8.8	54 10.1	53 50.2	53 50.5	53 51.8	53 47.7	53 44.2
Heading, Degrees	342	325	177	17	328	352	44	147	37	54
Average Depth (m)	102	97	84	71	82	102	274	232	252	174
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.1	1.9	0.9	1.9	1.9
Bottom Temperature	5.7	5.7	5.9	6.2	6.1	6.	5.3	6.3	5.8	5.7
-KILOGRAMS/KILOMETER-										
Pollock	0.0	0.0	0.0	9.8	0.0	0.0	5.1	47.0	50.0	341.7
Pacific Cod	7.8	17.6	4.2	63.7	9.6	128.6	15.9	96.5	8.6	14.7
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	2.0	1.2
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	33.9	1.0	0.0	1.2	6.6
Sablefish	5.1	8.8	0.0	0.0	0.0	0.0	0.0	7.8	0.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	15.2	1.2	46.0	2.2	12.2	8.3	0.0	0.0	0.0
Other Roundfish	2.7	0.0	0.5	2.4	1.5	2.4	5.6	4.4	3.4	6.9
TOTAL ROUNDFISH	15.7	41.6	5.9	122.0	13.2	177.2	42.1	155.8	65.1	372.3
Arrowtooth Flndr	137.9	267.2	7.8	56.1	99.4	7.3	87.2	103.4	122.7	287.8
Flathead Sole	70.8	55.4	0.0	16.4	40.4	0.0	18.4	9.3	65.1	98.9
Rock Sole	0.0	0.0	20.1	85.7	34.3	19.2	8.3	7.8	0.0	0.0
Rex Sole	46.0	7.6	0.0	0.0	5.4	0.0	0.7	4.4	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	4.2	0.0	0.0	15.7	0.0	0.0
Pac Halibut	29.9	75.4	15.2	8.8	6.1	26.9	24.0	1.5	0.0	1.5
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	0.0	0.0	0.0	16.4	37.2	0.0	0.0	0.0	0.0	0.0
Other Flatfish	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	284.6	405.6	43.1	187.6	227.0	53.5	138.6	142.1	187.9	388.2
Skates	1.2	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0	7.6
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.5	12.2	6.1	0.0	0.0	0.0	35.8	0.5	7.8	12.0
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	1.0	0.0
Scallop	3.4	0.0	0.2	1.0	0.0	0.4	0.0	0.5	0.0	0.0
Other Inverts	9.8	12.7	44.6	9.6	43.8	106.9	17.4	35.8	12.5	1.7
TOTAL INVERTS	13.7	25.0	50.9	10.5	43.8	107.4	53.9	37.2	21.3	13.7
Other	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	320.1	472.2	99.9	320.1	284.1	338.0	258.6	335.1	274.3	781.8

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Appendix B. (page 16 of 40)

Haul	151	152	153	154	155	156	157	158	159	160
Location	BEAVER	USOF BAY	USOF BAY	USOF BAY	USOF BAY	C. IDAK	C. IDAK	C. IDAK	INANUD.	
Month/Day/Year	08/02/94	08/03/94	08/03/94	08/03/94	08/03/94	08/04/94	08/04/94	08/04/94	08/04/94	
Station	BID	USF	USG	USB	USA	USC	IDK	IDG	IDH	INJ
Longitude Start	166 25.3	166 40.0	166 38.0	166 42.2	166 46.8	166 40.5	167 38.6	167 40.8	167 36.5	168 29.9
Latitude Start	53 46.9	53 31.4	53 33.0	53 28.5	53 32.8	53 26.9	53 28.7	53 30.9	53 31.1	53 21.9
Heading, Degrees	57	123	158	328	165	55	194	137	130	141
Average Depth (m)	254	75	82	108	121	102	123	90	77	86
Distance Fished (km)	1.9	1.9	1.9	1.9	1.7	1.5	1.9	1.9	1.9	1.9
Bottom Temperature	5.7	6.2	6.1	5.8	5.5	5.6	5.5			
KILOGRAMS/KILOMETER										
Pollock	38.9	0.0	0.0	0.0	69.1	0.0	0.0	0.0	0.0	0.0
Pacific Cod	24.7	11.5	3.4	7.1	43.8	3.7	10.3	34.5	0.5	1.2
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	2.7	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	137.6	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	68.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Roundfish	1.5	2.2	0.0	3.2	2.2	0.0	0.2	1.0	0.0	0.0
TOTAL ROUNDFISH	67.8	82.3	3.4	10.3	115.9	3.7	10.5	173.2	0.5	1.2
Arrowtooth Flndr	116.8	445.3	406.1	319.9	17.4	38.3	24.0	47.0	149.6	14.7
Flathead Sole	34.0	57.1	70.0	93.6	101.0	3.7	22.5	0.0	0.0	2.0
Rock Sole	0.0	79.8	0.0	0.0	0.0	9.2	33.1	57.8	89.9	118.5
Rex Sole	0.0	2.2	0.7	9.8	0.0	2.8	19.6	0.0	11.8	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	17.6	31.8	21.1	2.9	12.0	13.8	6.1	49.5	31.8	21.3
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Flatfish	0.0	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	168.5	635.6	497.9	426.2	130.4	67.7	105.3	154.3	283.1	156.5
Skates	0.0	3.7	0.0	3.2	0.0	4.9	9.3	28.2	0.7	0.0
Spiny Dogfish	1.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	9.1	0.2	0.0	4.7	2.2	0.3	0.7	0.0	0.2	0.0
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	1.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Scallop	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.2	0.0	0.5
Other Inverts	0.5	45.1	40.7	13.5	1.4	11.6	21.1	48.7	12.7	0.0
TOTAL INVERTS	10.5	45.3	40.7	18.1	3.8	11.9	22.5	51.9	14.0	0.5
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	247.9	766.9	543.2	457.8	250.1	88.2	147.7	407.6	298.3	158.2

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Appendix B. (page 17 of 40)

Haul	161	162	163	164	165	166	167	168	169	170
Location	INANUD.	INANUD.	INANUD.	PUM. BAY	PUM. BAY	MAKUSHIN	MAKUSHIN	MAKUSHIN	MAKUSHIN	MAKUSHIN
Month/Day/Year	08/04/94	08/05/94	08/05/94	08/05/94	08/05/94	08/05/94	08/06/94	08/06/94	08/06/94	08/06/94
Station	INF	INA	INB	PUA	PUB	MKP	MKF	MKJ	MKK	MKN
Longitude Start	168 30.0	168 25.5	168 25.7	167 1.3	167 9.1	167 3.6	167 0.8	167 6.7	167 11.1	167 6.9
Latitude Start	53 19.6	53 16.5	53 17.5	53 31.8	53 32.5	53 38.8	53 44.3	53 43.2	53 43.3	53 40.9
Heading, Degrees	140	333	310	270	327	302	249	77	105	170
Average Depth (m)	86	42	60	77	68	110	194	126	117	126
Distance Fished (km)	1.9	0.9	1.9	1.7	1.9	1.5	1.9	1.9	1.9	1.9
Bottom Temperature										
	KILOGRAMS/KILOMETER									
Pollock	0.0	0.0	0.0	27.8	0.0	65.5	0.0	251.8	7.6	146.2
Pacific Cod	8.8	2.0	2.0	5.4	0.0	7.0	12.2	62.9	5.6	8.8
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.8	0.0	0.6	0.0	0.2	0.0	0.0
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
Herring	0.0	0.0	2.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	0.0	0.2	1.6	0.0	0.0	1.2	0.0	0.0	0.0
Other Roundfish	0.2	0.5	0.2	0.0	1.2	0.0	0.0	3.2	2.4	0.0
TOTAL ROUNDFISH	9.1	2.4	4.4	35.6	1.7	73.2	14.2	318.2	16.2	155.3
Arrowtooth Flndr	4.7	4.4	6.4	47.9	42.6	162.0	52.9	25.2	47.3	52.2
Flathead Sole	3.7	0.0	1.5	60.4	46.3	65.5	88.2	20.1	62.2	48.7
Rock Sole	48.2	5.9	17.6	2.4	7.3	6.4	0.0	0.0	0.0	0.0
Rex Sole	4.7	0.0	0.5	10.1	16.7	2.4	12.2	20.1	50.0	2.7
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0
Pac Halibut	18.4	1.5	18.9	0.8	2.0	4.3	9.1	9.1	2.0	8.6
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	0.0	1.5	0.0	25.3	5.6	0.0	0.0	0.0	0.0	0.0
Other Flatfish	1.5	21.6	3.4	2.4	16.7	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	81.1	34.8	48.2	149.4	137.2	240.6	167.5	74.5	161.4	112.2
Skates	0.0	0.0	2.0	0.0	1.0	8.0	15.2	8.1	7.6	0.0
Spiny Dogfish	1.0	0.0	1.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.0	0.0	0.0	4.9	2.0	8.3	10.0	4.7	40.4	3.4
Red King Crab	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.2	0.0	0.0	0.5	0.0	0.0	0.2	1.2	0.0	0.0
Scallop	2.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	1.2	0.0
Other Inverts	3.4	3.9	8.1	1.4	9.3	8.9	8.8	30.4	18.1	2.9
TOTAL INVERTS	5.6	3.9	10.5	6.8	11.3	17.1	19.1	36.2	59.8	6.4
Other	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	101.6	41.1	66.1	191.9	159.2	338.9	216.0	436.9	244.9	273.8

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Appendix B. (page 18 of 40)

Haul	171	172	173	174	175	176	177	178	179	180
Location	MAKUSHIN	MAKUSHIN	MAKUSHIN	UNAK/KAL	UNAK/KAL	UNAK/KAL	UNAK/KAL	UNAK/KAL	UNAK/KAL	UNAK/KAL
Month/Day/Year	08/06/94	08/06/94	08/06/94	08/09/94	08/09/94	08/09/94	08/09/94	08/09/94	08/09/94	08/09/94
Station	MKE	MKB	MKC	UNE	UND	UNC	UNF	UNJ	UNI	UNG
Longitude Start	166 56.6	166 47.1	166 51.3	166 30.1	166 28.3	166 36.1	166 31.2	166 30.1	166 36.9	166 26.9
Latitude Start	53 43.9	53 42.1	53 43.0	53 56.6	53 57.3	53 55.1	53 58.2	54 1.8	54 1.5	53 58.8
Heading, Degrees	92	317	277	353	205	0	15	178	116	15
Average Depth (m)	198	95	174	117	75	137	146	172	75	82
Distance Fished (km)	1.9	1.3	1.9	1.9	1.9	1.5	1.9	1.9	0.9	1.3
Bottom Temperature										
							KILOGRAMS/KILOMETER			
Pollock	8.8	326.1	284.6	219.9	0.0	1228.0	522.4	859.4	4.4	0.0
Pacific Cod	6.4	10.1	21.3	26.5	64.4	17.1	9.1	49.2	317.9	152.6
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.5	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0
Thornyhead Rkfsh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	2.0	0.0	0.0	0.6	0.5	0.0	0.5	0.3
Sablefish	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	11.0	0.0	0.0	12.2	63.7	42.2	0.0	0.0	10.3	0.0
Other Roundfish	0.5	8.0	0.0	9.8	1.0	9.2	0.0	0.0	0.0	5.6
TOTAL ROUNDFISH	28.4	344.3	307.9	268.4	129.1	1298.1	540.3	909.2	333.1	158.5
58	Arrowtooth Flndr	62.0	168.3	88.2	73.2	106.1	127.1	585.9	161.2	16.7
	Flathead Sole	90.6	336.6	162.6	305.4	154.1	127.1	79.1	26.9	28.4
	Rock Sole	0.0	0.0	0.0	0.0	47.8	0.0	0.0	0.0	19.6
	Rex Sole	2.2	0.0	0.0	244.4	25.0	0.0	63.4	0.0	0.0
	Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Pac Halibut	8.8	0.0	0.0	24.2	7.8	9.8	9.3	5.6	29.9
	Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other Flatfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL FLATFISH	163.6	504.9	250.8	647.3	340.7	263.9	737.7	193.7	94.5
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Skates	2.0	0.0	10.3	0.0	0.0	2.8	0.0	5.4	0.0	0.0
Spiny Dogfish	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<hr/>										
Tanner Crab	6.9	11.5	5.4	0.2	2.7	0.3	0.5	1.2	0.0	0.0
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scallop	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Inverts	0.5	0.0	0.7	73.5	9.1	5.2	0.0	0.0	18.1	34.3
TOTAL INVERTS	7.8	11.5	6.1	73.7	11.8	5.5	0.5	1.2	18.1	34.3
<hr/>										
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	201.8	860.7	575.1	989.5	484.0	1570.3	1278.5	1109.5	445.8	374.0

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Haul	181	182	183	184	185	186	187	188	189	190
Location	UNAK/KAL	SANAK	MORZHOV.	MORZHOV.						
Month/Day/Year	08/09/94	08/11/94	08/11/94	08/11/94	08/11/94	08/11/94	08/11/94	08/11/94	08/12/94	08/12/94
Station	KAA	113	125	126	138A	138C	138B	137	MOU	MOV
Longitude Start	166 21.8	162 37.8	162 31.3	162 33.3	162 25.0	162 19.4	162 24.8	162 24.2	163 13.7	163 9.3
Latitude Start	53 57.3	54 30.6	54 31.0	54 29.1	54 28.7	54 26.3	54 26.8	54 30.2	54 46.7	54 47.6
Heading, Degrees	45	291	90	97	90	270	108	322	58	271
Average Depth (m)	46	135	146	139	143	148	144	146	84	82
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature										
-KILOGRAMS/KILOMETER-										
Pollock	0.0	70.0	58.5	52.2	22.0	184.4	395.8	35.0	264.0	0.0
Pacific Cod	15.4	33.1	28.4	28.4	36.7	26.9	41.6	17.6	36.2	5.1
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.9	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.2	0.0	0.0	0.2	0.0	3.2	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	10.8	13.7	0.0	0.0
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	32.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Roundfish	48.7	2.4	0.0	1.0	1.7	0.0	0.0	1.5	0.0	0.0
TOTAL ROUNDFISH	96.7	105.6	87.2	81.6	60.5	211.6	449.2	74.0	300.3	5.1
5										
Arrowtooth Flndr	108.3	51.4	61.5	130.3	54.6	58.5	214.8	86.2	0.0	34.8
Flathead Sole	12.0	163.4	64.4	125.2	42.6	58.5	113.2	45.8	82.5	291.5
Rock Sole	292.2	0.0	0.0	0.0	1.2	0.0	0.0	0.0	313.7	97.2
Rex Sole	0.0	10.8	0.0	15.7	4.2	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	25.5	0.0	0.0	0.0
Pac Halibut	14.0	2.9	6.1	17.6	26.5	6.6	35.8	12.0	62.9	23.8
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	166.5
Yellowfin Sole	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.5	111.0
Other Flattfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.2
TOTAL FLATFISH	444.8	228.5	132.0	288.8	129.1	123.7	389.2	144.0	541.8	776.9
Skates	1.0	2.4	2.4	2.9	0.0	0.0	2.9	2.4	0.0	2.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.0	0.5	0.7	0.2	0.7	5.4	0.2	1.5	0.0	0.2
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.0	0.5	0.2	0.0	0.2	0.5	0.0	0.2	0.0	0.0
Scallop	0.5	0.0	0.0	0.2	0.0	0.0	0.2	0.2	0.0	0.0
Other Inverts	20.3	8.6	10.8	14.2	4.4	9.3	45.3	9.1	136.7	121.7
TOTAL INVERTS	20.8	9.6	11.8	14.7	5.4	15.2	45.8	11.0	136.7	122.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	563.3	346.1	233.4	388.0	195.0	350.5	889.1	231.5	978.7	906.0

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Appendix B. (page 20 of 40)

Haul	191	192	193	194	195	196	197	198	199	200
Location	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.
Month/Day/Year	08/12/94	08/12/94	08/12/94	08/12/94	08/12/94	08/12/94	08/12/94	08/13/94	08/13/94	08/13/94
Station	87C	87D	98C	87B	87A	MOP	MOS	MOR	MON	MON
Longitude Start	162 58.9	162 56.0	162 53.9	162 57.8	162 59.9	162 58.3	163 3.8	163 10.0	163 5.2	163 4.5
Latitude Start	54 47.3	54 46.3	54 47.5	54 49.8	54 49.6	54 50.9	54 50.3	54 49.3	54 51.5	54 51.3
Heading, Degrees	180	321	174	137	180	8	237	63	55	57
Average Depth (m)	69	91	69	84	84	73	86	90	95	91
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature										
KILOGRAMS/KILOMETER										
Pollock	0.0	469.8	0.0	0.0	0.0	31.1	314.7	0.0	1163.6	
Pacific Cod	36.5	29.1	82.0	67.8	13.0	9.8	45.1	12.0	0.0	22.0
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfsh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Herring	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	14.9	139.1	11.0	84.7	52.9	49.2	10.0	9.8	0.0	0.0
Other Roundfish	4.9	5.1	0.0	15.7	10.3	5.1	0.0	0.0	0.0	0.0
TOTAL ROUNDFISH	58.8	643.2	93.1	168.3	76.2	64.2	86.2	336.5	0.0	1185.7
Arrowtooth Flndr	178.8	191.3	199.1	299.8	207.4	77.9	198.6	78.6	0.0	0.0
Flathead Sole	6.6	278.2	109.2	65.1	141.6	4.2	198.6	610.1	0.0	206.5
Rock Sole	159.0	52.2	44.8	247.6	6.6	69.6	19.8	113.2	0.0	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	8.3	15.7	13.7	22.0	9.1	3.4	5.4	20.3	0.0	61.5
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	39.7	86.9	38.5	91.1	188.6	73.7	43.4	108.3	0.0	75.2
Other Flatfish	0.0	0.0	6.4	0.0	6.6	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	392.4	624.3	411.7	725.7	559.9	228.8	465.8	930.5	0.0	343.1
Skates	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.0	0.7	0.2	2.9	26.9	33.3	10.0	1.2	0.0	11.8
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	0.0	0.0
Scallop	0.0	0.2	0.0	0.2	2.9	0.2	0.0	0.0	0.0	0.0
Other Inverts	81.1	82.8	7.6	125.2	89.6	25.2	11.0	31.4	0.0	0.0
TOTAL INVERTS	81.1	83.8	7.8	128.3	119.5	58.8	21.8	34.5	0.0	11.8
Other	0.0	0.0	24.5	0.0	0.0	0.7	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	532.2	1351.2	537.1	1023.8	755.6	352.4	573.9	1301.5	0.0	1540.6

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Appendix B. (page 21 of 40)

Haul	201	202	203	204	205	206	207	208	209	210
Location	MORZHOV.									
Month/Day/Year	08/13/94	08/13/94	08/13/94	08/13/94	08/13/94	08/14/94	08/14/94	08/14/94	08/14/94	08/14/94
Station	MOO	MOK	MOL	MOI	MOD	MOB	MOF	MOG	MOH	MOJ
Longitude Start	163 0.8	162 58.8	162 57.6	162 58.0	163 3.2	163 3.7	163 2.9	163 0.4	162 59.8	163 4.4
Latitude Start	54 51.9	54 52.7	54 54.7	54 56.9	55 1.8	55 3.6	54 60.0	54 59.6	54 57.1	54 53.6
Heading, Degrees	63	335	351	326	333	183	135	153	165	45
Average Depth (m)	91	95	130	101	82	77	79	88	102	64
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.1	1.9	1.9	1.9	1.7
Bottom Temperature										
KILOGRAMS/KILOMETER										
Pollock	1277.0	118.3	164.3	1255.0	185.9	238.0	15.2	505.8	4179.6	45.7
Pacific Cod	47.0	12.7	7.3	40.7	26.7	11.8	10.5	8.1	12.7	15.8
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	0.0	54.9	0.0	0.0	0.0	12.7	26.9	0.0	61.0
Other Roundfish	0.0	9.6	8.1	5.9	3.7	0.0	5.9	0.0	0.0	0.0
TOTAL ROUNDFISH	1324.1	140.6	234.6	1302.0	216.3	249.8	44.3	540.8	4192.3	123.5
Arrowtooth Flndr	273.6	189.3	153.3	134.5	111.4	164.9	176.8	153.3	321.6	76.5
Flathead Sole	577.8	449.7	273.8	328.7	538.8	183.3	96.0	145.7	142.8	183.1
Rock Sole	18.1	20.8	65.6	0.0	0.0	4.5	0.0	12.2	0.0	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	20.1	13.2	51.7	75.9	38.5	33.1	41.1	56.8	7.6	23.1
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	178.5	0.0
Yellowfin Sole	190.1	71.0	82.3	388.4	464.6	604.6	55.6	230.0	50.0	580.2
Other Flatfish	0.0	0.0	0.0	209.2	74.5	0.0	0.0	0.0	0.0	22.9
TOTAL FLATFISH	1079.6	744.1	626.8	1136.7	1227.8	990.3	369.6	598.1	700.5	885.8
Skates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	45.6	22.5	11.3	10.0	2.7	0.4	1.2	2.7	2.0	0.3
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.7	5.3	2.2	3.4	0.0	1.1
Shrimp	0.0	0.0	0.5	0.0	0.0	0.0	0.2	1.5	0.0	0.0
Scallop	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	5.4
Other Inverts	0.0	50.2	2.0	0.0	50.2	44.1	18.1	76.7	3.7	59.3
TOTAL INVERTS	45.6	73.0	13.7	10.3	53.6	49.8	21.8	84.3	5.6	66.1
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	2449.2	957.6	875.1	2449.0	1497.7	1289.9	435.7	1223.1	4898.5	1075.5

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Appendix B. (page 22 of 40)

Haul	211	212	213	214	215	216	217	218	219	220
Location	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY
Month/Day/Year	08/14/94	08/14/94	08/15/94	08/15/94	08/15/94	08/15/94	08/15/94	08/15/94	08/15/94	08/15/94
Station	BEG	BEF	BEA	BEB	BED	BEC	BEE	156A	157A	145B
Longitude Start	162 10.7	162 7.6	162 10.4	162 8.9	162 9.5	162 10.4	162 9.0	162 7.0	162 7.4	162 9.6
Latitude Start	54 57.9	55 0.1	55 8.4	55 8.3	55 6.6	55 6.6	55 4.0	54 58.9	54 55.1	54 52.9
Heading, Degrees	122	24	206	188	179	170	192	172	147	21
Average Depth (m)	79	99	29	69	82	73	73	88	75	69
Distance Fished (km)	1.9	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.5
Bottom Temperature										
KILOGRAMS/KILOMETER										
Pollock	268.9	8.9	0.0	119.5	93.3	144.0	318.4	9.1	291.7	99.8
Pacific Cod	3.7	8.3	3.7	12.7	1.0	6.4	2.9	9.1	1.5	1.2
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfsh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Herring	0.0	0.0	0.2	2.4	0.0	0.0	0.2	0.0	0.0	0.6
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0
Sculpins	0.0	11.9	0.0	0.0	0.0	42.4	0.0	13.7	0.0	0.0
Other Roundfish	0.0	4.0	2.4	0.0	0.0	6.1	0.0	3.7	0.0	0.0
TOTAL ROUNDFISH	272.6	33.1	6.4	134.7	94.3	198.9	321.6	37.2	293.2	101.6
Arrowtooth Flndr	46.8	0.0	1.2	93.6	116.6	90.9	4.7	23.0	80.6	177.3
Flathead Sole	315.7	56.9	39.4	186.9	512.6	287.8	589.5	91.8	291.7	166.2
Rock Sole	9.3	1.2	0.0	0.0	116.6	30.4	29.4	9.1	10.0	152.2
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	16.2	55.7	48.2	36.5	17.4	88.9	11.0	21.8	24.0	3.1
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	245.7	32.8	197.4	953.2	815.6	439.4	636.8	110.2	100.7	265.7
Other Flatfish	0.0	0.0	59.5	37.5	30.4	75.7	35.3	0.0	0.0	46.5
TOTAL FLATFISH	633.6	146.6	345.8	1307.6	1609.1	1013.0	1306.7	255.9	507.0	811.0
Skates	0.0	2.8	133.5	9.6	0.0	0.0	0.0	0.0	0.0	53.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.2	0.9	0.2	0.0	2.2	0.5	0.2	20.1	2.0	0.3
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	8.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scallop	8.6	0.9	0.0	0.0	0.0	0.0	1.2	0.5	2.9	0.3
Other Inverts	44.1	66.1	60.5	32.8	14.0	38.0	64.9	24.5	11.5	8.9
TOTAL INVERTS	52.9	68.6	69.3	34.5	16.2	38.5	66.4	45.1	16.4	9.5
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	959.1	251.0	555.0	1486.4	1719.6	1250.3	1694.6	338.2	816.6	975.1

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Appendix B. (page 24 of 40)

Haul	231	232	233	234	235	236	237	238	239	240
Location	COLD BAY	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V
Month/Day/Year	08/18/94	08/19/94	08/19/94	08/19/94	08/19/94	08/19/94	08/19/94	08/19/94	08/19/94	08/19/94
Station	CO _C	V _O O	V _O L	V _O Q	V _O R	V _O N	V _O M _B	V _O M _A	V _O F _A	V _O F _B
Longitude Start	162 32.7	161 56.5	161 58.1	161 49.3	161 44.9	161 46.2	161 48.0	161 50.3	161 50.7	161 48.0
Latitude Start	55 12.7	55 11.3	55 12.9	55 12.0	55 11.8	55 13.4	55 13.5	55 13.8	55 15.6	55 16.4
Heading, Degrees	343	351	303	93	315	49	0	0	180	227
Average Depth (m)	46	75	66	91	119	119	99	88	86	97
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.1	1.9
Bottom Temperature										
KILOGRAMS/KILOMETER										
Pollock	0.0	90.4	125.4	164.6	29.9	23.5	396.5	113.9	216.8	32.8
Pacific Cod	14.0	7.6	9.3	2.4	44.3	68.1	5.9	7.8	13.1	21.3
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfsh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfsh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.7	0.0	0.0	0.7	0.0	0.0	0.0	1.2	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	14.7	22.5	0.0	0.0	67.1	7.8	0.0	0.0	0.0	0.0
Other Roundfish	1.5	0.0	0.7	2.4	11.3	15.7	0.0	0.0	0.0	2.2
TOTAL ROUND FISH	30.1	121.2	135.4	169.5	153.3	115.1	402.4	121.7	231.0	56.3
6										
Arrowtooth Flndr	0.0	135.4	56.3	181.0	129.1	163.9	161.6	139.4	108.6	131.0
Flathead Sole	102.9	282.4	392.1	230.5	129.1	242.0	499.4	430.3	289.0	327.2
Rock Sole	0.0	45.1	156.8	16.4	0.0	2.0	14.7	17.6	24.1	32.8
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	20.8	28.4	46.3	26.7	27.9	32.1	12.0	26.2	58.8	5.6
Starry Flndr	161.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	690.9	203.3	470.5	82.3	198.6	54.6	73.5	151.9	84.5	185.4
Other Flatfish	0.0	0.0	58.8	0.0	0.0	0.0	12.2	0.0	72.3	0.0
TOTAL FLAT FISH	976.3	694.6	1180.8	536.9	484.7	494.5	773.5	765.4	637.2	682.1
Skates	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.7	13.5	0.5	5.4	18.9	13.5	2.0	1.2	1.6	2.0
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.7	1.5	1.7	0.7	0.7	0.0	0.0	0.0	4.9	0.0
Shrimp	0.0	0.0	0.7	0.0	0.0	0.0	1.5	0.0	0.0	1.0
Scallop	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Inverts	8.1	53.4	3.9	0.0	111.7	66.4	3.7	34.8	66.5	53.4
TOTAL INVERTS	9.6	68.3	6.9	6.1	131.3	79.8	7.1	36.0	73.1	56.3
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	1025.5	884.2	1323.1	712.5	769.3	689.5	1183.0	923.1	941.3	794.8

-Continued-

Appendix B. (page 25 of 40)

Haul	241	242	243	244	245	246	247	248	249	250
Location	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V
Month/Day/Year	08/19/94	08/20/94	08/20/94	08/20/94	08/20/94	08/20/94	08/20/94	08/21/94	08/21/94	08/21/94
Station	VOP	VOG	VOH	VOI	VOJ	VOC	VOB	VOA	PAU	PARA
Longitude Start	161 55.5	161 46.8	161 39.9	161 37.5	161 30.5	161 35.6	161 41.3	161 43.1	161 40.5	161 40.6
Latitude Start	55 11.4	55 15.3	55 16.1	55 16.5	55 17.2	55 18.3	55 18.4	55 17.7	55 21.3	55 23.3
Heading, Degrees	58	80	45	75	270	86	86	10	350	15
Average Depth (m)	95	102	101	112	73	99	101	110	128	106
Distance Fished (km)	1.7	1.9	1.9	1.9	0.9	1.9	1.7	1.9	1.9	1.9
Bottom Temperature										
KILOGRAMS/KILOMETER										
Pollock	354.6	173.2	212.3	112.9	0.0	132.0	217.2	154.5	32.3	113.9
Pacific Cod	17.7	35.8	11.0	39.2	3.4	26.5	10.6	15.4	9.8	3.2
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	16.7	32.8	18.9	0.0	0.0	0.0	6.4	0.0	0.0
Other Roundfish	4.9	21.6	2.0	9.3	13.2	2.4	0.0	2.2	4.2	4.4
TOTAL ROUNDFISH	377.2	247.1	259.4	180.3	16.7	160.9	227.8	178.5	46.3	121.5
Arrowtooth Flndr	44.4	26.7	109.5	60.3	41.1	74.2	140.7	119.3	169.5	227.5
Flathead Sole	827.3	399.5	75.4	248.4	74.9	189.8	511.1	182.5	137.2	131.3
Rock Sole	98.5	0.0	0.0	0.0	56.3	12.5	38.4	0.0	16.2	122.5
Rex Sole	0.0	0.0	0.0	0.0	18.6	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	19.3	19.6	11.8	0.0	5.4	2.9	21.2	13.7	0.0	0.0
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	29.7	186.4	61.7	82.8	112.2	107.3	0.0	10.5	193.7	54.6
Other Flatfish	138.0	0.0	0.0	0.0	149.9	14.5	102.3	0.0	0.0	48.2
TOTAL FLATFISH	1157.1	632.1	258.4	391.4	458.5	401.2	813.7	326.0	516.5	584.1
Skates	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	21.0	5.1	7.8	6.6	3.9	23.5	3.0	1.2	5.6	1.0
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.5	1.0
Scallop	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Other Inverts	143.7	23.3	65.1	22.3	50.9	103.1	22.3	36.5	66.1	11.3
TOTAL INVERTS	164.6	28.4	73.7	28.9	55.4	126.6	25.3	38.0	72.3	13.2
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	1698.9	907.7	591.5	600.6	530.5	688.7	1066.8	542.5	635.1	718.8

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Appendix B. (page 26 of 40)

Haul	251	252	253	254	255	256	257	258	259	260
Location	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V
Month/Day/Year	08/21/94	08/21/94	08/21/94	08/21/94	08/21/94	08/21/94	08/21/94	08/21/94	08/22/94	08/22/94
Station	PAOA	PAOB	PAP	PAQ	PAS	PAWA	PAV	PARB	PAH	PAI
Longitude Start	161 40.3	161 39.6	161 35.2	161 31.4	161 31.5	161 32.0	161 34.5	161 34.6	161 36.1	161 34.5
Latitude Start	55 25.8	55 25.8	55 27.0	55 26.8	55 23.9	55 22.0	55 20.0	55 23.8	55 30.7	55 31.8
Heading, Degrees	180	33	51	190	10	181	349	342	180	141
Average Depth (m)	82	95	77	48	38	77	101	82	60	35
Distance Fished (km)	1.5	1.9	1.7	1.1	1.3	1.1	1.9	1.9	1.3	1.7
Bottom Temperature										
KILOGRAMS/KILOMETER										
Pollock	62.5	78.6	508.6	0.0	0.3	476.0	267.7	206.5	516.4	0.0
Pacific Cod	0.0	14.2	1.4	0.0	0.3	4.5	2.7	2.2	0.0	2.4
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	78.1	49.2	0.0	0.0	0.0	46.5	0.0	41.4	56.7	0.0
Other Roundfish	6.1	9.8	3.8	1.6	0.0	0.0	2.2	0.0	0.0	0.0
TOTAL ROUNDFISH	146.6	151.9	513.8	1.6	0.7	527.0	272.6	250.8	573.1	2.4
99										
Arrowtooth Flndr	203.3	216.3	78.4	14.7	12.9	82.9	284.4	103.4	31.1	0.0
Flathead Sole	234.5	609.9	371.7	22.0	0.0	62.0	585.6	660.8	185.8	1.6
Rock Sole	75.0	0.0	136.9	46.1	115.8	413.9	0.0	129.1	36.0	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	11.6	39.2	32.1	35.5	60.5	12.7	0.0	24.2	31.1	314.0
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.2	0.0
Yellowfin Sole	344.1	314.7	313.0	214.7	19.2	310.6	41.9	227.0	620.0	220.2
Other Flatfish	0.0	0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	868.6	1180.0	932.1	346.2	208.5	882.1	911.8	1144.5	1007.3	535.8
Skates	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.3	1.0	0.5	0.4	0.0	0.0	0.0	8.6	1.0	0.0
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.6	0.0	0.3	4.1	1.0	0.0	0.0	0.5	4.9	4.1
Shrimp	1.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
Scallop	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0
Other Inverts	90.0	87.2	63.7	35.9	128.1	133.5	146.2	62.0	47.6	167.6
TOTAL INVERTS	92.5	88.2	64.5	40.4	131.2	133.5	146.2	73.0	53.5	171.7
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	1107.7	1420.1	1510.4	388.2	340.4	1551.2	1330.7	1468.3	1634.0	710.0

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Appendix B. (page 27 of 40)

Haul	261	262	263	264	265	266	267	268	269	270
Location	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V
Month/Day/Year	08/22/94	08/22/94	08/22/94	08/22/94	08/22/94	08/22/94	08/22/94	08/23/94	08/23/94	08/23/94
Station	PAE	PAF	PAB	PAC	PAJ	PAM	PAL	VOD	VOE	228
Longitude Start	161 33.9	161 31.1	161 29.1	161 26.3	161 31.4	161 32.3	161 36.6	161 32.8	161 28.3	161 17.9
Latitude Start	55 34.3	55 34.0	55 36.2	55 36.3	55 31.5	55 29.5	55 28.6	55 19.0	55 19.0	55 16.0
Heading, Degrees	130	134	117	106	186	180	198	66	95	66
Average Depth (m)	20	27	22	20	40	59	77	110	62	73
Distance Fished (km)	1.9	1.7	1.9	1.9	1.9	1.9	0.9	1.9	1.9	1.9
Bottom Temperature										
KILOGRAMS/KILOMETER										
Pollock	0.0	822.7	60.3	0.0	0.0	71.3	178.3	124.9	347.1	0.0
Pacific Cod	30.9	0.0	0.0	0.7	1.2	0.0	4.9	22.8	6.4	0.0
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	1.5	4.9	0.0	0.7	0.0	0.0	0.0	0.7
Herring	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	60.0	0.0	0.0	0.0	0.0	0.0	15.2	0.0	24.5	54.9
Other Roundfish	1.7	0.0	0.7	0.0	1.2	0.0	0.0	14.7	0.0	3.4
TOTAL ROUNDFISH	92.6	822.7	62.9	5.6	2.4	72.0	198.4	162.4	377.9	59.0
Arrowtooth Flndr	0.0	0.0	0.0	0.0	25.0	0.0	0.0	249.8	184.4	335.5
Flathead Sole	5.9	99.6	22.0	4.4	12.5	53.4	25.5	396.8	17.4	61.7
Rock Sole	12.0	0.0	0.0	0.0	25.0	0.0	356.6	22.0	29.9	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	86.7	33.7	13.7	3.7	20.6	38.0	17.1	14.7	26.0	10.0
Starry Flndr	0.0	0.0	0.0	87.2	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	191.8	448.8	807.0	319.9	573.1	1258.4	764.2	220.4	97.7	41.1
Other Flatfish	0.0	0.0	32.3	21.8	0.0	0.0	0.0	73.5	50.0	0.0
TOTAL FLATFISH	296.4	582.1	875.1	436.9	656.1	1349.8	1163.4	977.2	405.3	448.5
Skates	0.0	0.0	3.4	11.8	0.0	0.0	0.0	13.7	0.0	5.6
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.0	0.0	0.0	0.0	0.2	0.2	1.0	9.3	0.0	0.2
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	3.2	35.6	2.0	1.7	5.4	17.6	1.5	0.0	0.0	0.0
Shrimp	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Scallop	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
Other Inverts	86.5	38.6	42.6	31.4	19.8	176.8	332.1	25.0	13.2	23.8
TOTAL INVERTS	89.6	74.3	44.6	33.1	27.2	194.7	334.6	34.3	13.2	24.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	478.6	1479.1	986.1	487.4	685.8	1616.5	1696.3	1187.6	796.5	537.1

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Appendix B. (page 28 of 40)

Haul	271	272	273	274	275	276	277	278	279	280	
Location	PAVLOF/V	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	BEAVER	BEAVER	BEAVER	BEAVER	
Month/Day/Year	08/23/94	08/23/94	08/23/94	08/24/94	08/24/94	08/24/94	08/24/94	08/24/94	08/24/94	08/24/94	
Station	245	335	334	373B	393	371	329B	311A	BAF	BAD	
Longitude Start	161 15.1	160 28.9	160 24.2	160 3.8	159 58.8	160 9.4	160 25.5	160 33.2	160 33.3	160 34.7	
Latitude Start	55 16.4	54 59.0	55 1.1	55 9.4	55 12.0	55 17.0	55 27.7	55 27.3	55 28.8	55 30.8	
Heading, Degrees	90	50	41	316	331	333	40	270	327	324	
Average Depth (m)	79	110	102	77	75	137	174	132	79	97	
Distance Fished (km)	1.9	1.9	1.9	1.9	1.3	1.5	1.9	1.9	1.9	1.9	
Bottom Temperature											
KILOGRAMS/KILOMETER											
Pollock	230.7	0.0	0.0	80.3	0.0	807.6	173.2	235.6	0.0	121.5	
Pacific Cod	2.0	83.8	68.1	16.9	23.4	222.9	18.1	22.8	47.8	2.9	
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sablefish	3.7	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sculpins	0.0	46.3	0.0	0.0	9.1	0.0	0.0	0.0	0.0	54.6	
Other Roundfish	0.0	0.0	0.0	1.5	1.0	0.0	0.5	0.0	0.0	0.0	
TOTAL ROUNDFISH	236.4	130.1	68.1	98.7	33.6	1030.5	192.8	258.4	47.8	179.0	
8	Arrowtooth Flndr	822.2	114.4	201.1	32.1	118.6	973.9	74.9	280.4	103.1	191.0
	Flathead Sole	100.2	55.6	100.4	41.9	82.6	71.3	132.7	202.1	15.4	165.1
	Rock Sole	14.9	0.0	12.5	2.4	10.5	53.6	0.0	0.0	5.1	39.2
	Rex Sole	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Pac Halibut	0.0	100.9	18.4	35.3	57.7	58.5	10.5	12.5	8.3	5.9
	Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Yellowfin Sole	68.1	0.0	18.9	19.3	87.8	0.0	0.0	24.7	139.1	78.1
	Other Flatfish	0.0	0.0	18.9	0.0	0.0	0.0	0.0	0.0	33.6	0.0
TOTAL FLATFISH	1005.4	277.0	370.1	131.0	357.2	1157.3	218.2	519.7	304.7	479.3	
Skates	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spiny Dogfish	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	1.0	0.0	0.0	15.9	1.4	0.0	1.0	0.2	0.2	0.2	2.4
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	2.4
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
Scallop	1.0	0.2	0.2	23.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Other Inverts	23.5	23.3	15.9	27.2	35.0	4.9	23.3	5.6	27.2	22.8	
TOTAL INVERTS	25.5	23.5	16.2	66.4	38.1	4.9	24.7	5.9	48.0	27.7	
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	1267.2	430.6	454.3	302.5	429.0	2192.7	435.7	784.0	400.4	686.0	

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Appendix B. (page 29 of 40)

Haul	281	282	283	284	285	286	287	288	289	290
Location	BEAVER	W.NAGAI	W.NAGAI							
Month/Day/Year	08/25/94	08/25/94	08/25/94	08/25/94	08/25/94	08/25/94	08/25/94	08/25/94	08/26/94	08/26/94
Station	BAA	BAC	BAE	BVB	BVA	BVD	BVC	278	332B	353
Longitude Start	160 41.3	160 37.3	160 36.6	160 52.3	160 54.4	160 53.1	160 54.4	160 56.3	160 22.3	160 17.8
Latitude Start	55 32.3	55 31.5	55 28.7	55 29.9	55 29.3	55 27.7	55 27.2	55 23.4	55 12.6	55 5.7
Heading, Degrees	111	160	175	189	180	180	202	0	0	18
Average Depth (m)	37	95	113	37	42	82	101	106	183	106
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	0.9	1.9	1.9	1.7	1.9
Bottom Temperature										
KILOGRAMS/KILOMETER										
Pollock	0.0	244.4	287.5	0.0	0.0	0.0	12.5	48.2	565.2	0.0
Pacific Cod	18.1	24.0	18.6	24.7	2.2	0.0	216.3	66.1	37.8	61.5
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	3.3	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	0.0	1.0	0.0	0.0	61.7	43.4	58.5	0.0	0.0
Other Roundfish	0.0	1.2	2.2	1.0	0.5	0.0	0.0	6.9	0.0	2.7
TOTAL ROUNDFISH	18.1	269.7	309.3	25.7	2.7	61.7	272.6	179.8	606.3	64.2
6										
Arrowtooth Flndr	36.0	195.4	369.8	22.0	17.9	96.5	99.2	82.8	310.8	421.8
Flathead Sole	50.5	40.7	112.9	35.3	8.8	20.6	55.8	69.1	155.4	291.9
Rock Sole	8.6	9.8	0.0	70.8	8.8	5.4	6.1	82.8	0.0	10.8
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	26.2	22.8	31.4	14.5	20.1	9.3	160.4	74.0	37.6	93.3
Starry Flndr	0.0	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	216.3	8.1	17.9	203.5	195.7	199.9	198.6	89.6	0.0	0.0
Other Flatfish	11.5	50.9	0.0	77.4	35.5	13.7	0.0	24.7	0.0	0.0
TOTAL FLATFISH	349.0	356.1	532.0	423.5	286.8	345.3	520.2	423.0	503.7	817.8
Skates	29.6	0.0	0.0	0.0	5.1	0.0	0.0	0.0	2.7	18.1
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.0	4.7	13.5	0.5	0.0	0.0	0.0	1.7	3.8	0.2
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	2.2	1.7	0.2	63.9	36.7	4.4	17.4	0.0	0.0	0.0
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0
Scallop	0.0	0.0	0.0	0.5	0.5	9.8	8.3	3.4	0.0	0.7
Other Inverts	46.8	14.5	15.2	41.9	69.3	79.8	55.8	5.6	3.8	0.0
TOTAL INVERTS	49.0	20.8	28.9	106.8	106.5	94.1	81.6	10.8	9.0	1.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	445.8	646.6	870.2	556.0	401.2	501.1	874.4	613.5	1121.7	901.1

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Appendix B. (page 30 of 40)

Haul	291	292	293	294	295	296	297	298	299	300	
Location	BEAVER	BEAVER	BEAVER	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	BEAVER	STEPOVAK	STEPOVAK	
Month/Day/Year	08/26/94	08/26/94	08/26/94	08/28/94	08/28/94	08/28/94	08/28/94	08/29/94	08/29/94	08/29/94	
Station	312A	311B	329C	354	337	318	301	348	368A	STD	
Longitude Start	160 36.5	160 32.2	160 29.1	160 19.8	160 29.5	160 33.4	160 43.7	160 18.5	160 10.4	159 49.4	
Latitude Start	55 24.5	55 26.0	55 25.9	55 3.9	54 45.7	54 47.6	54 47.9	55 34.2	55 33.9	55 45.5	
Heading, Degrees	104	90	45	37	40	127	120	104	90	10	
Average Depth (m)	64	133	132	104	108	108	110	188	181	121	
Distance Fished (km)	1.9	1.9	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
Bottom Temperature											
KILOGRAMS/KILOMETER											
Pollock	0.0	400.4	606.5	0.0	0.0	0.0	0.0	21.3	201.6	310.3	
Pacific Cod	268.7	5.4	14.4	167.5	45.6	24.0	10.8	21.6	26.0	5.1	
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	
Sablefish	0.0	0.0	0.0	0.0	0.0	2.7	4.2	1.0	3.2	0.0	
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sculpins	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Roundfish	0.0	0.0	0.0	2.0	0.0	0.0	0.0	3.4	0.0	0.0	
TOTAL ROUNDFISH	268.7	405.8	620.9	169.5	45.6	26.7	14.9	47.3	231.2	315.5	
70	Arrowtooth Flndr	66.4	326.7	202.1	224.6	151.6	213.3	381.1	505.5	284.1	504.3
	Flathead Sole	5.9	163.4	134.7	191.3	84.3	14.0	9.3	57.1	192.5	129.3
	Rock Sole	69.3	0.0	0.0	25.0	4.2	0.0	0.0	0.0	0.0	0.0
	Rex Sole	0.0	0.0	0.0	0.0	38.0	17.4	0.0	0.0	0.0	0.0
	Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Pac Halibut	5.4	0.0	9.8	84.5	11.0	26.2	12.5	0.0	6.4	0.0
	Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Yellowfin Sole	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other Flatfish	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	64.7
	TOTAL FLATFISH	152.8	490.1	346.6	533.7	289.0	270.9	402.9	562.6	483.0	698.3
Skates	0.0	0.0	0.0	1.5	0.0	0.0	0.5	11.0	0.0	0.0	
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tanner Crab	0.0	0.5	1.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.0	0.0	
Scallop	0.0	0.0	0.0	0.2	11.8	38.2	1.5	0.0	0.0	0.2	
Other Inverts	23.0	11.0	0.0	4.9	13.5	12.5	10.8	11.5	67.4	0.0	
TOTAL INVERTS	23.0	11.5	1.2	5.4	25.5	51.2	12.5	12.5	68.6	0.5	
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL CATCH(kg/km)	444.5	907.4	968.7	710.0	360.0	348.8	430.8	633.4	782.8	1014.2	

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Appendix B. (page 31 of 40)

Haul	301	302	303	304	305	306	307	308	309	310	
Location	STEPOVAK	STEPOVAK	STEPOVAK	IVANOF	IVANOF	IVANOF	IVANOF	IVANOF	IVANOF	MITROFAN	
Month/Day/Year	08/29/94	08/29/94	08/29/94	08/30/94	08/30/94	08/30/94	08/30/94	08/30/94	08/30/94	08/30/94	
Station	STA	STB	STE	4007	4000	400X	4008	4915	4024	4035	
Longitude Start	159 48.5	159 45.6	159 45.9	159 23.9	159 28.7	159 29.4	159 25.4	159 10.7	159 3.7	158 49.1	
Latitude Start	55 48.9	55 49.2	55 47.3	55 46.7	55 46.1	55 49.4	55 43.8	55 51.9	55 53.4	55 57.8	
Heading, Degrees	171	180	180	241	0	156	7	230	137	244	
Average Depth (m)	110	113	123	82	75	64	99	64	101	141	
Distance Fished (km)	1.9	1.9	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
Bottom Temperature											
-KILOGRAMS/KILOMETER-											
Pollock	224.1	713.9	306.2	15.9	20.1	144.3	56.3	83.8	466.1	940.7	
Pacific Cod	10.0	7.6	9.8	6.4	0.5	10.3	1.7	2.2	4.7	12.0	
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	1.0	
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sculpins	0.0	0.0	0.0	2.0	0.0	0.0	28.2	0.0	0.0	46.3	
Other Roundfish	0.0	0.0	0.0	0.0	5.1	2.0	0.5	1.7	11.5	0.0	
TOTAL ROUNDFISH	234.1	721.5	316.0	24.2	25.7	156.5	88.4	87.7	483.5	1000.0	
71	Arrowtooth Flndr	163.9	199.9	126.8	23.8	60.3	72.0	44.3	66.1	7.6	46.3
	Flathead Sole	68.8	142.8	74.6	67.4	48.2	381.1	112.7	66.1	23.0	200.6
	Rock Sole	0.0	11.5	0.0	5.9	12.0	0.0	7.1	8.8	0.0	0.0
	Rex Sole	2.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Pac Halibut	30.1	1.5	12.8	11.5	13.2	0.0	25.7	14.9	22.5	24.5
	Starry Flndr	0.0	0.0	0.0	35.5	0.0	0.0	0.0	0.0	0.0	0.0
	Yellowfin Sole	111.9	28.7	10.3	59.3	100.4	144.3	0.0	22.0	0.0	0.0
	Other Flatfish	0.0	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL FLATFISH	376.9	419.8	224.5	203.3	234.1	597.4	189.8	178.1	53.1	271.4
Skates	12.2	0.0	0.0	26.2	42.6	7.1	15.2	14.7	0.0	0.0	
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tanner Crab	0.2	0.0	0.5	0.2	0.2	12.7	3.2	0.2	0.2	0.2	
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Dungeness Crab	0.0	0.0	0.0	0.0	5.4	1.0	0.0	0.0	0.0	0.0	
Shrimp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Scallop	0.5	0.0	0.8	0.5	0.7	0.0	0.2	6.4	3.4	0.2	
Other Inverts	1.0	14.9	5.7	67.8	2.7	36.0	14.0	22.5	0.7	43.1	
TOTAL INVERTS	1.7	14.9	7.1	68.6	9.1	49.7	17.4	29.1	4.4	43.6	
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL CATCH(kg/km)	625.0	1156.3	547.5	322.3	311.5	810.7	310.8	309.6	541.0	1315.0	

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Appendix B. (page 32 of 40)

Haul	311	312	313	314	315	316	317	318	319	320
Location	MITROFAN	MITROFAN	MITROFAN	MITROFAN	MITROFAN	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK
Month/Day/Year	08/31/94	08/31/94	08/31/94	08/31/94	08/31/94	09/01/94	09/01/94	09/01/94	09/01/94	09/01/94
Station	4049	4065	4064	4063	4048	4964	4264	4265	4271	4270
Longitude Start	158 47.0	158 34.4	158 35.7	158 35.0	158 38.0	158 20.4	158 16.5	158 18.3	158 13.3	158 11.3
Latitude Start	55 55.7	55 56.0	56 0.0	56 7.8	56 3.6	56 13.4	56 13.5	56 11.4	56 13.8	56 14.9
Heading, Degrees	118	350	341	225	180	109	37	34	45	51
Average Depth (m)	143	101	155	146	174	69	77	57	91	99
Distance Fished (km)	1.9	0.7	1.9	1.3	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature										
KILOGRAMS/KILOMETER										
Pollock	54.4	0.0	104.3	201.9	137.4	80.8	282.2	103.4	204.3	162.6
Pacific Cod	9.6	12.2	8.1	19.6	158.7	9.8	19.1	2.0	5.4	6.9
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.6	1.2	0.3	0.7	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	1.8	0.0	4.9	15.2	1.2	0.0	0.0	2.4	5.1
Other Roundfish	0.0	0.0	4.2	4.9	2.2	1.2	0.0	1.2	6.4	8.8
TOTAL ROUNDFISH	63.9	14.7	117.8	231.6	314.2	93.1	301.3	107.5	218.5	183.4
Arrowtooth Flndr	40.7	169.6	174.1	70.7	30.6	100.9	119.3	137.2	74.2	88.7
Flathead Sole	167.3	27.6	208.9	413.9	297.8	269.2	260.4	205.7	191.8	192.3
Rock Sole	0.0	35.5	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0
Pac Halibut	18.4	44.1	0.0	14.0	0.0	32.3	4.7	0.0	27.9	12.7
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0
Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	15.2	86.7	342.9	0.0	0.0
Other Flatfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.6	0.0	0.0
TOTAL FLATFISH	226.3	276.8	383.1	498.6	328.4	427.6	471.0	761.2	293.9	319.6
Skates	7.6	11.0	0.0	0.0	4.7	71.3	64.7	8.6	29.9	101.2
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.0	0.0	2.4	5.6	2.2	399.7	0.5	0.0	0.2	10.0
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	53.4	10.3	36.5	28.4	30.6
Shrimp	0.2	0.0	0.7	10.1	4.7	0.0	1.0	0.0	1.5	2.0
Scallop	0.0	1.2	0.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
Other Inverts	49.7	8.0	2.2	7.3	0.7	0.7	18.9	0.0	1.5	24.0
TOTAL INVERTS	50.0	9.2	5.6	23.1	7.6	455.1	33.6	36.5	31.6	66.6
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	347.8	311.7	506.5	753.3	654.9	1047.0	870.5	913.8	573.9	670.8

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Appendix B. (page 33 of 40)

Haul	321	322	323	324	325	326	327	328	329	330
Location	CHIGNIK									
Month/Day/Year	09/01/94	09/01/94	09/01/94	09/02/94	09/02/94	09/02/94	09/02/94	09/02/94	09/02/94	09/03/94
Station	4312	4267	4266	4256	4274	4278	4277	4272	4287	4282
Longitude Start	158	9.3	158	10.0	158	11.5	158	8.0	158	5.9
Latitude Start	56	15.2	56	24.3	56	25.1	56	25.3	56	25.2
Heading, Degrees	65		308		270		90		320	
Average Depth (m)	124		135		146		91		181	
Distance Fished (km)	1.5		1.9		1.9		1.9		1.9	
Bottom Temperature										
KILOGRAMS/KILOMETER										
Pollock	136.9	290.7	44.1	156.8	174.1	262.6	349.0	35.5	310.6	157.5
Pacific Cod	6.4	9.1	10.8	7.8	17.6	20.8	10.8	0.0	50.7	18.1
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.9	1.0	0.0	0.0	0.0	2.0	0.5	0.0	8.8	0.5
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Sablefish	4.0	0.0	0.0	0.0	0.0	2.0	3.7	1.2	0.0	1.7
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	2.4	4.4	0.0	0.0	0.0	0.0	1.7	0.0	0.0
Other Roundfish	18.1	2.0	4.4	0.0	0.0	2.2	12.5	2.2	0.0	0.0
TOTAL ROUNDISH	166.2	305.2	63.7	164.6	192.0	289.5	376.4	40.7	370.1	177.8
Arrowtooth Flndr	153.1	309.3	214.3	126.9	212.8	235.4	209.4	168.5	162.6	184.9
Flathead Sole	305.8	131.3	132.5	141.8	90.4	126.6	89.6	372.5	59.3	157.5
Rock Sole	0.0	0.0	0.0	14.9	0.0	0.0	0.0	0.0	0.0	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	3.4	2.9	6.6	59.5	10.8	26.9	20.6	16.7	11.0	31.8
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.8	0.0	0.0
Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Flatfish	0.0	0.0	0.0	63.4	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	462.3	443.6	353.4	406.6	314.0	388.9	319.6	637.5	232.9	374.2
Skates	118.2	0.0	14.0	0.0	7.3	14.2	6.1	27.2	12.2	46.0
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	8.6	2.0	3.4	0.2	8.1	23.3	26.5	0.5	11.0	5.9
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	5.8	1.2	1.0	7.1	0.2	0.2	0.0	0.0	0.0	0.0
Shrimp	0.9	2.0	3.2	0.0	0.7	1.7	2.4	1.7	0.7	1.7
Scallop	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Other Inverts	0.0	11.8	10.0	16.9	3.4	2.2	0.0	8.8	0.0	1.5
TOTAL INVERTS	15.3	16.9	17.6	25.0	12.5	27.4	28.9	11.0	11.8	9.1
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	762.0	765.6	448.7	596.1	525.8	720.1	731.1	716.4	627.0	607.2

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Appendix B. (page 34 of 40)

Haul	331	332	333	334	335	336	337	338	339	340
Location	CHIGNIK	KUJULIK	KUJULIK	KUJULIK	KUJULIK	KUJULIK	KUJULIK	W.KOD	W.KOD	W.KOD
Month/Day/Year	09/03/94	09/03/94	09/03/94	09/03/94	09/03/94	09/03/94	09/03/94	09/19/94	09/19/94	09/19/94
Station	4286	4298	4290	4296	4301	4302	4308	KUD	KUF	KUJ
Longitude Start	157 55.2	157 45.3	157 50.8	157 46.2	157 40.9	157 40.7	157 37.7	153 10.4	153 18.2	153 17.8
Latitude Start	56 25.5	56 32.0	56 36.3	56 37.3	56 33.5	56 32.1	56 32.3	57 59.1	58 1.8	57 56.2
Heading, Degrees	92	70	130	155	208	101	123	107	270	315
Average Depth (m)	166	91	27	73	93	101	124	42	137	163
Distance Fished (km)	1.7	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	1.9
Bottom Temperature								7.8	6.3	6.
-KILOGRAMS/KILOMETER-										
Pollock	80.0	32.6	9.3	71.0	79.6	112.2	40.7	0.0	306.6	136.2
Pacific Cod	8.7	14.5	14.9	3.2	12.2	16.2	21.3	0.0	6.9	165.8
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	0.7	0.0	0.7	0.0	0.0	2.0	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Other Roundfish	1.4	0.7	0.5	0.0	0.0	3.2	2.0	0.0	0.0	3.4
TOTAL ROUNDFISH	90.9	47.8	24.7	74.9	91.8	132.3	63.9	0.0	315.5	306.4
Arrowtooth Flndr	246.6	85.5	16.7	53.4	159.2	79.1	67.6	3.4	68.1	311.3
Flathead Sole	146.7	138.4	6.6	364.2	368.4	190.8	297.8	10.8	216.0	214.1
Rock Sole	0.0	12.2	33.3	4.4	0.0	0.0	0.0	71.0	2.4	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.8	0.0
Pac Halibut	16.6	31.1	23.0	118.5	38.9	23.0	15.4	12.7	0.0	20.3
Starry Flndr	0.0	0.0	6.6	79.8	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	0.0	0.0	56.6	15.4	0.0	0.0	0.0	9.3	0.0	0.0
Other Flattfish	0.0	0.0	40.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	409.8	267.2	183.4	635.8	566.5	292.9	380.9	107.3	344.4	545.7
Skates	18.2	72.7	0.0	4.9	15.7	41.9	113.2	8.8	8.3	8.3
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	7.9	1.2	0.0	3.7	0.2	0.2	3.9	0.0	11.8	26.0
Red King Crab	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	3.3	1.2	0.0	1.0	1.0	1.5	2.7	0.0	3.4	7.3
Scallop	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0
Other Inverts	0.5	7.8	36.7	11.0	0.0	1.0	17.4	33.8	37.2	17.6
TOTAL INVERTS	11.7	10.3	37.5	19.8	1.7	3.2	24.0	33.8	52.4	50.9
Other	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	530.7	398.0	245.7	745.8	675.7	470.3	581.9	149.9	720.6	911.4

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Haul	341	342	343	344	345	346	347	348	349	350
Location	W.KOD									
Month/Day/Year	09/20/94	09/20/94	09/20/94	09/20/94	09/20/94	09/20/94	09/20/94	09/20/94	09/20/94	09/21/94
Station	KUYX	KUY	KUL	KULX	KUK	KUE	KUG	KUI	KUM	KUN
Longitude Start	153 12.7	153 11.7	153 12.5	153 13.6	153 15.1	153 17.0	153 26.1	153 22.9	153 7.2	153 22.6
Latitude Start	57 44.5	57 46.8	57 50.2	57 51.9	57 55.3	58 1.2	58 1.8	57 58.5	57 51.8	57 50.2
Heading, Degrees	14	0	357	153	296	180	0	296	301	122
Average Depth (m)	26	73	82	99	143	128	79	238	69	119
Distance Fished (km)	1.5	1.7	1.9	0.9	1.9	1.1	1.9	1.9	1.7	0.9
Bottom Temperature	9.6	8.7	7.	6.9	6.1	6.5	6.4	5.9	6.8	6.
-----KILOGRAMS/KILOMETER-----										
Pollock	54.2	44.6	305.9	127.8	78.4	845.0	0.0	0.0	99.6	138.6
Pacific Cod	5.5	20.4	0.0	4.9	15.7	20.0	102.1	6.6	0.0	0.0
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	2.1	1.4	2.0	0.0	0.0	6.1	62.2	1.0	0.0	0.0
Herring	4.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	10.7	0.0	41.1	15.2	0.0	0.0	0.0	2.7	0.0	0.0
Other Roundfish	0.0	52.8	6.4	9.8	0.0	0.0	2.0	4.2	3.3	2.9
TOTAL ROUNDFISH	77.2	119.5	356.4	157.7	94.1	871.1	166.3	14.5	102.9	141.6

Arrowtooth Flndr	0.0	0.0	82.3	120.5	771.3	250.2	369.1	334.8	66.4	36.7
Flathead Sole	124.0	445.2	129.3	158.2	170.0	78.4	38.9	160.7	365.2	277.3
Rock Sole	0.0	66.7	0.0	6.9	0.0	0.0	48.5	0.0	203.3	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	39.2	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	17.6	0.0	44.3	31.4	31.6	80.3	0.0	0.0
Pac Halibut	33.4	39.7	1.0	4.9	2.7	24.1	232.2	1.0	12.0	4.4
Starry Flndr	70.7	133.6	0.0	31.8	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	956.7	712.5	129.3	67.6	0.0	0.0	0.0	0.0	265.6	27.9
Other Flatfish	38.9	133.6	79.4	0.0	0.0	0.0	11.8	0.0	63.1	53.4
TOTAL FLATFISH	1223.7	1531.3	438.9	389.9	988.3	423.3	732.1	576.8	975.6	399.7

Skates	51.1	0.0	17.1	0.0	18.6	0.0	3.9	13.2	31.6	6.4
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.0	0.5	1.0	21.6	24.0	0.0	0.2	84.0	2.2	2.9
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	9.8	14.0	5.4	0.2	0.0	0.0	0.0	0.0	0.0
Shrimp	0.0	0.0	0.0	1.0	1.2	0.0	0.0	3.4	0.0	1.0
Scallop	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
Other Inverts	156.1	22.3	57.1	8.3	0.0	0.0	43.6	78.6	26.4	10.8
TOTAL INVERTS	156.1	32.7	72.0	36.2	25.5	0.0	45.8	166.1	28.6	14.7
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH (kg/km)	1508.1	1683.4	884.4	583.9	1126.4	1294.4	948.1	770.5	1138.6	562.3

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Haul	351	352	353	354	355	356	357	358	359	360
Location	W.KOD									
Month/Day/Year	09/21/94	09/21/94	09/21/94	09/21/94	09/21/94	09/21/94	09/21/94	09/21/94	09/22/94	09/22/94
Station	KUO	KUP	KUQ	KUS	KUT	KUU	KUX	KUXX	KUW	KUV
Longitude Start	153 24.0	153 27.0	153 31.9	153 33.1	153 31.2	153 29.9	153 22.7	153 24.8	153 31.4	153 31.6
Latitude Start	57 50.7	57 51.5	57 53.7	57 52.6	57 49.7	57 47.5	57 44.2	57 46.3	57 41.2	57 44.4
Heading, Degrees	302	292	143	134	166	159	359	314	345	0
Average Depth (m)	137	155	183	183	181	154	106	135	69	84
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	1.9	1.3
Bottom Temperature	6.	5.9	5.7	5.7	5.9	5.9	5.7	5.7	7.1	6.
KILOGRAMS/KILOMETER										
Pollock	58.5	9.1	48.7	83.3	59.5	286.1	123.0	148.9	0.0	93.1
Pacific Cod	3.7	5.1	7.1	16.9	21.3	6.6	0.7	6.4	1.2	12.6
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	0.2	0.7	6.4	5.4	6.4	18.4	2.1
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	0.0	4.4	3.4	0.0	24.5	0.0	0.0	0.0	0.0	0.0
Other Roundfish	7.6	6.6	5.1	3.2	3.2	2.9	26.5	24.5	12.7	3.5
TOTAL ROUNDFISH	74.7	25.2	64.4	103.6	109.2	302.0	155.8	186.1	32.3	111.3
Arrowtooth Flndr	158.0	179.3	135.9	53.1	119.3	265.7	98.2	127.8	38.5	43.0
Flathead Sole	175.6	125.6	73.2	113.6	157.2	112.4	442.3	351.2	306.9	157.8
Rock Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	7.8	6.9	0.0	0.0	22.5	6.1	0.0	0.0	5.2
Pac Halibut	8.6	4.4	23.8	0.0	6.9	1.5	2.9	0.0	59.8	26.6
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	255.7	71.7
Other Flatfish	0.0	13.5	0.0	17.1	0.0	0.0	26.9	0.0	150.9	21.3
TOTAL FLATFISH	342.2	330.6	239.8	184.7	283.4	402.2	576.5	479.1	811.7	343.6
Skates	12.5	17.9	0.0	7.1	2.9	25.5	0.0	26.5	41.6	20.6
Spiny Dogfish	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	6.6	14.9	7.3	7.8	7.3	2.9	2.9	5.4	6.1	0.3
Red King Crab	2.9	0.0	0.0	0.0	0.0	0.0	16.2	1.5	1.7	19.6
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	6.6
Shrimp	3.4	4.4	6.1	2.7	8.1	2.4	4.9	7.3	0.0	0.0
Scallop	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Other Inverts	8.3	0.0	1.7	2.4	0.5	1.0	98.2	17.6	76.7	100.1
TOTAL INVERTS	21.3	19.3	15.2	13.0	15.9	6.4	122.2	31.8	91.4	127.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	450.7	394.6	319.4	308.4	411.5	736.0	854.5	723.5	977.0	602.5

-Continued-

Appendix B. (page 37 of 40)

Haul	361	362	363	364	365	366	367	368	369	370
Location	N.MAIN.									
Month/Day/Year	09/22/94	09/22/94	09/22/94	09/23/94	09/23/94	09/23/94	09/23/94	09/23/94	09/23/94	09/23/94
Station	224	223	222	172	198	199	200	174	147	146
Longitude Start	153 49.5	153 55.4	154 15.4	154 1.4	153 55.5	153 48.3	153 38.6	153 38.8	153 29.5	153 39.3
Latitude Start	58 9.3	58 9.4	58 10.1	58 17.6	58 13.7	58 14.5	58 14.9	58 17.8	58 23.6	58 22.8
Heading, Degrees	47	37	122	203	30	30	0	26	204	185
Average Depth (m)	196	207	77	137	216	196	179	179	181	174
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature	5.	4.9	8.1	7.8	5.	4.9	5.	5.	5.2	5.1
KILOGRAMS/KILOMETER										
Pollock	5.4	13.7	22.8	20.3	0.5	17.9	0.7	0.0	41.9	12.7
Pacific Cod	1.5	2.4	20.3	18.4	0.0	0.0	1.0	0.0	56.6	55.4
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	7.6	7.6	1.0	0.0	1.0	3.7	3.4	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	15.7
Sablefish	8.8	15.9	0.0	0.0	3.7	3.7	1.7	0.0	1.2	0.7
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	2.7	2.7	0.2	0.0	0.2	2.0	0.0	0.5	0.0	0.0
Other Roundfish	0.0	0.0	0.5	0.0	0.2	3.7	1.5	2.4	3.7	1.2
TOTAL ROUNDFISH	26.0	42.4	44.8	41.4	5.6	30.9	8.3	2.9	103.4	85.7
Arrowtooth Flndr	63.9	58.0	13.0	142.8	73.2	41.6	106.8	124.2	237.1	346.8
Flathead Sole	26.7	33.1	54.1	12.2	1.5	33.8	48.7	18.9	8.1	19.3
Rock Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Dover Sole	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pac Halibut	2.9	17.6	0.5	0.5	0.0	8.1	0.0	0.0	11.8	56.1
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Flatfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	93.6	108.7	71.0	155.5	74.7	83.5	155.5	143.0	256.9	423.0
Skates	6.4	29.9	64.4	44.6	46.3	16.2	9.1	7.8	18.6	28.9
Spiny Dogfish	0.0	0.0	0.0	2.4	0.0	3.4	0.0	3.7	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	9.3	4.2	0.2	8.8	12.5	4.7	17.6	6.9	5.6	5.4
Red King Crab	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	4.2	3.4	0.7	0.5	2.4	2.4	6.1	10.8	8.1	4.4
Scallop	0.0	0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Other Inverts	11.3	10.8	9.3	39.4	16.4	13.5	10.3	12.7	12.7	29.4
TOTAL INVERTS	24.7	18.4	16.4	49.0	31.4	20.6	34.0	30.4	26.5	39.2
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	150.6	199.4	196.7	292.9	158.0	154.5	207.0	187.9	405.3	576.8

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Appendix B. (page 38 of 40)

Haul	371	372	373	374	375	376	377	378	379	380
Location	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.
Month/Day/Year	09/24/94	09/24/94	09/24/94	09/25/94	09/25/94	09/25/94	09/25/94	09/25/94	09/25/94	09/26/94
Station	171	171X	171Y	173	145	117	118	119	144	90
Longitude Start	154 15.6	154 11.6	154 6.1	153 48.9	153 50.2	153 46.9	153 40.6	153 29.4	153 58.5	153 31.1
Latitude Start	58 18.2	58 19.6	58 19.2	58 18.9	58 25.0	58 27.0	58 28.0	58 27.7	58 26.2	58 32.7
Heading, Degrees	65	83	99	27	34	47	50	22	62	58
Average Depth (m)	113	108	77	205	119	123	141	150	91	124
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature	8.8	8.9	9.6	5.	7.6	7.8	6.4	6.5	9.4	8.6
-----KILOGRAMS/KILOMETER-----										
Pollock	14.9	2.4	9.3	24.0	2.7	9.1	26.9	36.2	6.6	1.2
Pacific Cod	6.9	0.0	8.3	0.0	9.6	1.5	7.3	3.4	1.7	4.4
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.2	0.0	0.0	0.5	0.0	0.0	0.2	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.0	0.0	1.5	0.0	0.7	0.0	4.7	0.0	0.7
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	1.5	0.0	0.0	0.0	1.5	2.2	0.0	0.0	0.0	1.5
Other Roundfish	0.0	0.7	0.0	0.5	1.5	2.2	2.7	7.8	0.0	0.0
TOTAL ROUNDFISH	23.5	3.2	17.6	26.5	15.2	16.2	37.2	52.2	8.3	7.8
78	Arrowtooth Flndr	51.9	50.2	7.1	124.9	228.0	85.5	70.8	141.3	49.5
	Flathead Sole	334.6	102.9	65.6	4.7	41.9	24.5	14.7	39.4	236.6
	Rock Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
	Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
	Dover Sole	0.0	0.0	0.0	0.0	0.0	3.7	0.0	14.0	0.0
	Pac Halibut	13.2	15.4	4.4	59.5	0.5	2.0	0.0	33.8	12.5
	Starry Flndr	0.0	0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0
	Yellowfin Sole	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0
	Other Flatfish	0.0	0.0	18.9	6.6	0.0	0.0	0.0	0.0	19.8
TOTAL FLATFISH	399.7	168.5	112.4	195.7	270.4	115.6	85.7	228.5	318.4	107.8
Skates	52.9	66.4	17.4	4.4	58.8	20.1	13.7	18.4	148.4	26.5
Spiny Dogfish	0.0	0.0	0.0	0.0	0.0	9.6	2.7	4.4	5.4	10.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	0.2	77.2	7.1	11.3	0.0	3.9	26.2	3.7	0.0	1.2
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	1.5	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	5.9	0.5	0.2	14.0	2.2	1.7	4.2	1.0	0.2	0.2
Scallop	0.0	0.0	0.5	0.0	1.0	0.7	0.7	0.7	0.7	0.0
Other Inverts	0.0	7.1	16.7	17.9	28.9	40.9	0.2	0.7	10.5	3.7
TOTAL INVERTS	7.6	86.0	25.0	43.1	32.1	47.3	31.4	6.1	11.5	5.1
Other	0.0	0.0	0.0	0.0	14.7	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	483.7	324.0	172.4	269.7	391.1	208.7	170.7	309.6	492.0	157.2

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Haul	381	382	383	384	385	386	387	388	389	390
Location	N.MAIN.	W.KOD	W.KOD							
Month/Day/Year	09/26/94	09/26/94	09/26/94	09/26/94	09/26/94	09/26/94	09/27/94	09/27/94	09/27/94	09/27/94
Station	91	60	61	31	2	3	121	120	PAA	MAA
Longitude Start	153 23.6	153 20.6	153 15.0	153 13.4	153 12.3	153 1.9	153 10.5	153 17.1	152 57.0	153 5.6
Latitude Start	58 34.7	58 37.8	58 39.2	58 42.8	58 47.3	58 49.2	58 29.5	58 29.9	58 18.0	58 13.1
Heading, Degrees	45	54	33	30	3	180	212	225	327	288
Average Depth (m)	137	121	155	154	135	150	172	172	113	137
Distance Fished (km)	1.9	1.9	1.7	1.7	1.9	1.9	1.9	1.9	1.5	1.9
Bottom Temperature	7.3	7.1	6.8	7.1	7.3	6.3	5.9	6.1	7.6	7.
KILOGRAMS/KILOMETER										
Pollock	5.1	1.5	0.0	9.8	18.9	0.0	76.4	45.1	532.4	162.4
Pacific Cod	22.5	3.4	6.5	4.4	6.1	7.6	7.6	32.3	12.2	7.8
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rougheye Rkfish	0.0	0.0	0.0	0.0	0.0	11.3	1.5	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sablefish	0.0	0.7	0.0	0.0	0.0	1.7	1.0	1.0	1.5	0.0
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	1.0	0.2	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
Other Roundfish	0.5	0.5	3.3	1.4	0.0	4.7	2.0	0.0	7.3	2.4
TOTAL ROUNDFISH	29.1	6.4	9.8	15.5	25.0	25.2	89.6	78.4	553.5	172.7
Arrowtooth Flndr	20.8	50.5	99.3	90.6	147.2	187.9	267.9	120.3	187.1	243.7
Flathead Sole	27.9	24.2	13.9	29.7	15.7	83.5	14.5	9.1	129.5	294.4
Rock Sole	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rex Sole	0.0	1.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	0.0	0.0	7.9	0.0	1.5	0.0	0.0	0.0	28.8	0.0
Pac Halibut	47.3	19.1	9.0	7.3	20.6	26.5	11.8	12.2	2.8	47.0
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6	0.0
Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6	0.0
Other Flatfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	96.0	96.5	132.5	127.6	184.9	297.8	294.2	141.6	463.2	585.1
Skates	6.1	24.7	12.8	43.3	46.0	35.5	35.3	26.0	51.4	55.6
Spiny Dogfish	14.2	12.7	17.7	28.3	25.0	10.8	3.4	6.1	0.0	1.5
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	2.2	0.2	1.9	0.3	0.2	2.9	8.8	7.1	27.2	14.5
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shrimp	0.0	0.5	0.8	0.3	0.2	1.0	1.5	5.9	3.7	5.1
Scallop	0.5	0.5	0.0	0.0	0.2	0.0	0.0	0.2	0.3	0.0
Other Inverts	4.2	14.0	15.5	6.5	22.8	7.6	1.0	29.9	61.2	15.2
TOTAL INVERTS	6.9	15.2	18.2	7.1	23.5	11.5	11.3	43.1	92.5	34.8
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	152.3	155.5	191.0	221.8	304.4	380.9	433.8	295.1	1160.6	849.6

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Haul	391	392	393	394	395	396	397	398	399	400
Location	W.KOD									
Month/Day/Year	09/27/94	09/28/94	09/28/94	09/28/94	09/28/94	09/28/94	09/28/94	09/29/94	09/29/94	09/29/94
Station	RAA	UYBX	UYEX	UYKX	UYMX	UYQX	UYS	UYO	UYFX	UYHX
Longitude Start	153 12.7	153 59.9	153 55.6	153 52.6	153 53.9	153 54.6	153 49.1	153 48.4	153 50.5	153 43.4
Latitude Start	58 8.1	57 44.3	57 38.8	57 35.5	57 34.0	57 30.5	57 24.8	57 34.6	57 40.3	57 39.7
Heading, Degrees	315	150	158	327	357	180	180	333	280	270
Average Depth (m)	115	137	183	124	108	155	77	82	146	95
Distance Fished (km)	1.9	1.9	1.9	1.5	1.9	1.9	0.6	0.7	1.7	1.9
Bottom Temperature	7.3	5.5	5.6	7.	7.	7.2	7.8	7.8	7.2	7.4
-KILOGRAMS/KILOMETER-										
Pollock	22.3	318.4	32.3	33.4	48.5	34.8	0.8	45.9	98.8	162.6
Pacific Cod	0.0	10.5	15.2	8.0	3.2	4.4	9.8	0.0	4.1	2.0
Pac Ocean Perch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Rougheye Rkfish	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thornyhead Rkfh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Rockfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Sablefish	1.7	13.2	2.7	0.0	0.7	4.7	0.0	0.0	0.0	2.9
Herring	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sculpins	2.2	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.5	0.0
Other Roundfish	0.0	0.0	0.0	2.1	5.9	13.7	1.6	0.0	1.1	2.4
TOTAL ROUNDISH	26.2	343.1	50.2	43.5	64.4	57.6	12.2	45.9	104.8	170.2
Arrowtooth Flndr	280.7	1160.0	157.0	206.3	109.2	40.7	65.3	36.7	93.6	60.0
Flathead Sole	199.6	136.4	64.7	133.8	254.7	180.3	215.5	165.3	161.1	274.1
Rock Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rex Sole	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dover Sole	44.3	96.7	15.7	15.3	48.5	11.5	0.0	0.0	0.0	0.0
Pac Halibut	18.9	30.1	70.0	16.5	5.9	6.1	1.6	30.6	0.0	8.3
Starry Flndr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	101.0	0.0	60.0
Yellowfin Sole	0.0	0.0	0.0	0.0	0.0	0.0	24.5	0.0	0.0	0.0
Other Flattfish	22.3	0.0	0.0	16.8	0.0	34.8	21.2	206.3	0.0	25.7
TOTAL FLATFISH	565.8	1423.2	307.4	388.8	418.3	273.3	328.2	540.1	254.7	428.1
Skates	56.8	15.2	97.5	41.9	35.5	23.8	75.1	120.0	5.7	22.5
Spiny Dogfish	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Elasmobrh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tanner Crab	9.3	0.2	2.9	0.6	2.4	0.5	0.8	0.6	7.3	1.0
Red King Crab	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Dungeness Crab	0.0	0.0	0.0	0.0	0.0	7.3	15.5	3.1	0.3	0.0
Shrimp	0.7	0.0	2.7	2.8	1.2	0.0	0.8	0.6	2.7	0.7
Scallop	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Other Inverts	17.6	0.0	8.3	13.8	35.0	21.8	13.9	42.2	16.1	0.0
TOTAL INVERTS	27.9	0.2	14.0	17.1	38.7	29.6	31.0	46.5	26.4	2.9
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH(kg/km)	680.2	1781.8	469.0	491.4	557.0	384.3	446.6	752.5	391.6	623.8

Appendix C. Stations fished during the 1994 Westward Region trawl survey, divided by Districts, Sections, and Stratum with areas in square kilometers and square nautical miles.

KODIAK DISTRICT											
NORTHEAST SECTION			EASTSIDE SECTION			SOUTHEAST SECTION			WESTSIDE SECTION		
Inner Marmot			Ugak Bay			South Sitkalidik			Uyak Bay		
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²
KZA	11.7	3.4	UGAA	16.1	4.7	THA	15.1	4.4	UYBX	21.5	6.3
KZB	2.8	0.8	UGAB	4.7	1.4	THC	19.6	5.7	UYEX	30.0	8.7
KZC	12.4	3.6	UGAC	3.2	0.9	THD	28.7	8.3	UYFX	22.1	6.4
KZD	23.7	6.9	UGB	5.8	1.7	THF	22.4	6.5	UYHX	4.1	1.2
KZE	27.5	8.0	UGC	17.5	5.1	THG	21.5	6.3	UYKX	13.9	4.0
KZF	20.6	6.0	UGD	11.0	3.2	THH	19.3	5.6	UYMX	20.9	6.1
KZG	21.3	6.2	UGE	12.7	3.7	THI	21.7	6.3	UYO	3.4	1.0
KJJ	21.5	6.3	UGF	15.8	4.6	THJ	17.9	5.2	UYQX	7.7	2.2
KZK	21.5	6.3	UGG	11.0	3.2	THK	16.5	4.8	UYS	13.4	3.9
KZO	21.5	6.3	UGI	22.4	6.5	THL	9.3	2.7			
KZR	13.8	4.0	UGJ	21.5	6.3	THM	10.7	3.1			
KZS	3.1	0.9	UGM	16.9	4.9	THN	5.2	1.5			
	201.4	58.6		158.7	46.1		207.7	60.4			
Middle Marmot									Uganik Bay		
Station	KM ²	NM ²							Station	KM ²	NM ²
MOEX	78.4	22.8							KULX	2.1	0.6
MOGX	76.0	22.1							KUN	2.8	0.8
MOLX	77.7	22.6							KUO	8.0	2.3
MONX	86.0	25.0							KUP	13.3	3.9
MOPX	97.7	28.4							KUQ	20.6	6.0
MOXX	81.2	23.6							KUS	12.2	3.5
	497.1	144.5							KUT	9.4	2.7
Outer Marmot									KUU	13.7	4.0
Station	KM ²	NM ²							KUV	4.1	1.2
255	129.0	37.5							KUW	5.2	1.5
256	86.0	25.0							KUX	4.1	1.2
257	86.0	25.0							KUXX	5.6	1.6
283	129.0	37.5							KUYX	2.6	0.8
284	86.0	25.0								103.7	30.2
	516.0	150.0									
Chiniak Gully			Horseshoe/Barnabas			N.MAINLAND SECTION			Kupreanof-Viekoda		
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²
369X	151.4	44.0	486A	28.0	8.1	2	86.0	25.0	KUD	27.2	7.9
395	86.0	25.0	486B	29.4	8.6	3	86.0	25.0	KUE	11.4	3.3
420	86.0	25.0	510B	63.2	18.4	31	83.9	24.4	KUF	11.3	3.3
421	86.0	25.0	510C	40.8	11.9	60	86.0	25.0	KUG	15.5	4.5
442	86.0	25.0	511A	43.0	12.5	61	86.0	25.0	KUI	6.4	1.9
443	86.0	25.0	511B	43.0	12.5	90	80.5	23.4	KUJ	17.0	5.0
444	86.0	25.0	533A	43.0	12.5	91	86.0	25.0	KUK	14.1	4.1
	667.4	194.0	533B	43.0	12.5	117	98.0	28.5	KUL	2.7	0.8
Chiniak			534A	21.5	6.3	118	86.0	25.0	KUM	10.5	3.1
Station	KM ²	NM ²	534B	21.5	6.3	119	86.0	25.0	KUY	4.1	1.2
CHA	5.5	1.6	535A	21.5	6.3	120	86.0	25.0		120.2	35.0
CHB	7.9	2.3	535B	21.5	6.3	121	86.0	25.0			
CHE	20.6	6.0	535C	21.5	6.3	144	60.9	17.7			
CHF	12.7	3.7	535D	21.5	6.3	145	86.0	25.0			
CHG	34.7	10.1	655	86.0	25.0	146	86.0	25.0			
CHJ	35.8	10.4	656	86.0	25.0	147	86.0	25.0			
CHK	8.6	2.5	695	86.0	25.0	171	11.5	3.3			
CHL	14.1	4.1	696	86.0	25.0	171X	8.1	2.4			
	140.0	40.7		806.4	234.4	171Y	29.2	8.5			
						172	89.4	26.0			
						173	86.0	25.0			
						174	86.0	25.0			
						198	86.0	25.0			
						199	86.0	25.0			
						200	86.0	25.0			
						222	113.5	33.0			
						223	86.0	25.0			
						224	86.0	25.0			
						2209.1	642.2				

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Appendix C. (page 2 of 3).

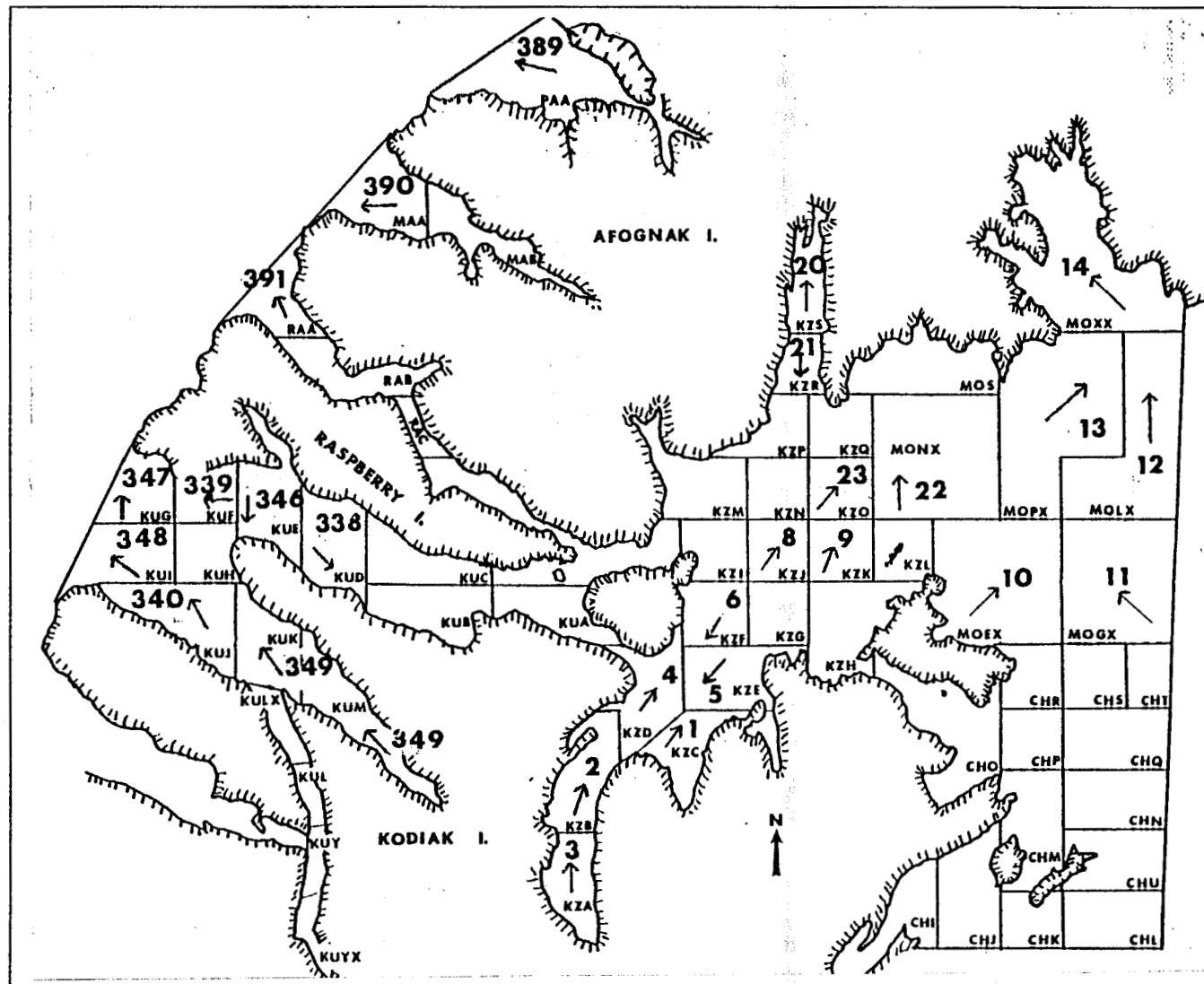
SOUTH PENINSULA DISTRICT											
SANAK SECTION			PAVLOF SECTION			COLD BAY SECT.			STEPOVAK SECTION		
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²
113	77.4	22.5	228	93.8	27.3	132A	24.3	7.1	368A	45.6	13.3
125	77.4	22.5	245	88.0	25.6	145B	32.8	9.5	STA	21.1	6.1
126	84.1	24.5	PAB	13.5	3.9	156A	44.3	12.9	STB	18.9	5.5
137	86.0	25.0	PAC	13.7	4.0	157A	21.1	6.1	STD	22.8	6.6
138A	46.4	13.5	PAE	20.8	6.1	BEA	4.9	1.4	STE	15.6	4.5
138B	18.5	5.4	PAF	20.8	6.1	BEB	11.1	3.2		123.9	36.0
138C	57.1	16.6	PAH	15.0	4.4	BEC	8.2	2.4			
	446.9	129.9	PAI	21.5	6.3	BED	17.6	5.1			
MORZHOVOI SECTION			PAJ	16.9	4.9	BEE	21.5	6.3	BEAVER/BALBOA SECTION		
Station	KM ²	NM ²	PAL	21.5	6.3	BEF	15.8	4.6	Station	KM ²	NM ²
87A	22.4	6.5	PAM	21.5	6.3	BEG	20.4	5.9	278	71.7	20.8
87B	22.4	6.5	PAOA	6.7	2.0	COB	21.2	6.2	311A	15.5	4.5
87C	22.4	6.5	PAOB	21.5	6.3	COC	15.3	4.5	311B	20.5	6.0
87D	22.4	6.5	PAP	20.8	6.1	COE	21.2	6.2	312A	22.4	6.5
98C	22.4	6.5	PAQ	8.5	2.5	COF	11.5	3.4	329B	21.5	6.3
MOB	20.0	5.8	PARA	19.1	5.6	COGA	9.8	2.9	329C	21.5	6.3
MOD	16.2	4.7	PARB	21.1	6.1	COGB	3.6	1.1	348	86.0	25.0
MOF	21.5	6.3	PAS	12.8	3.7	COH	7.8	2.3	BAA	12.0	3.5
MOG	21.5	6.3	PAU	21.5	6.3	COJ	20.8	6.1	BAC	16.9	4.9
MOH	16.9	4.9	PAV	20.6	6.0	COM	18.6	5.4	BAD	10.4	3.0
MOI	21.5	6.3	PAWA	15.4	4.5	COO	22.5	6.5	BAE	12.8	3.7
MOJ	21.5	6.3	VOA	22.5	6.5		374.2	108.8	BAF	10.9	3.2
MOJ	21.5	6.3	VOB	21.5	6.3				BVA	15.3	4.5
MOK	21.5	6.3	VOC	22.5	6.5				BVB	14.0	4.1
MOL	21.5	6.3	VOD	20.8	6.1				BVC	18.9	5.5
MON	21.5	6.3	VOE	20.8	6.1	Station	KM ²	NM ²	BVD	25.4	7.4
MOO	21.5	6.3	VOFA	5.6	1.6	301	86.0	25.0		370.3	107.6
MOP	34.7	10.1	VOFB	15.6	4.5	318	86.0	25.0			
MOR	18.6	5.4	VOG	23.1	6.7	332B	43.0	12.5	PENINSULA DISTRICT TOTALS		
MOS	28.9	8.4	VOH	21.8	6.3	334	86.0	25.0			
MOU	19.6	5.7	VOI	22.2	6.4	335	86.0	25.0			
MOV	43.3	12.6	VOJ	20.8	6.1	337	86.0	25.0			
	481.9	140.1	VOL	9.1	2.7	353	86.3	25.1	SECTION	KM²	NM²
			VOMA	11.9	3.5	354	86.0	25.0	Sanak	446.9	129.9
			VOMB	17.0	4.9	371	80.8	23.5	Morzhovoi	481.9	140.1
			VON	22.5	6.5	373B	20.6	6.0	Cold Bay	374.2	108.8
			VOO	18.2	5.3	393	47.5	13.8	Pavlov	869.9	252.9
			VOP	21.5	6.3		794.2	230.9	West Nagai	794.2	230.9
			VOQ	16.0	4.6				Beaver	370.3	107.6
			VOR	21.2	6.2				Stepovak	123.9	36.0
				869.9	252.9					3461.4	1006.2

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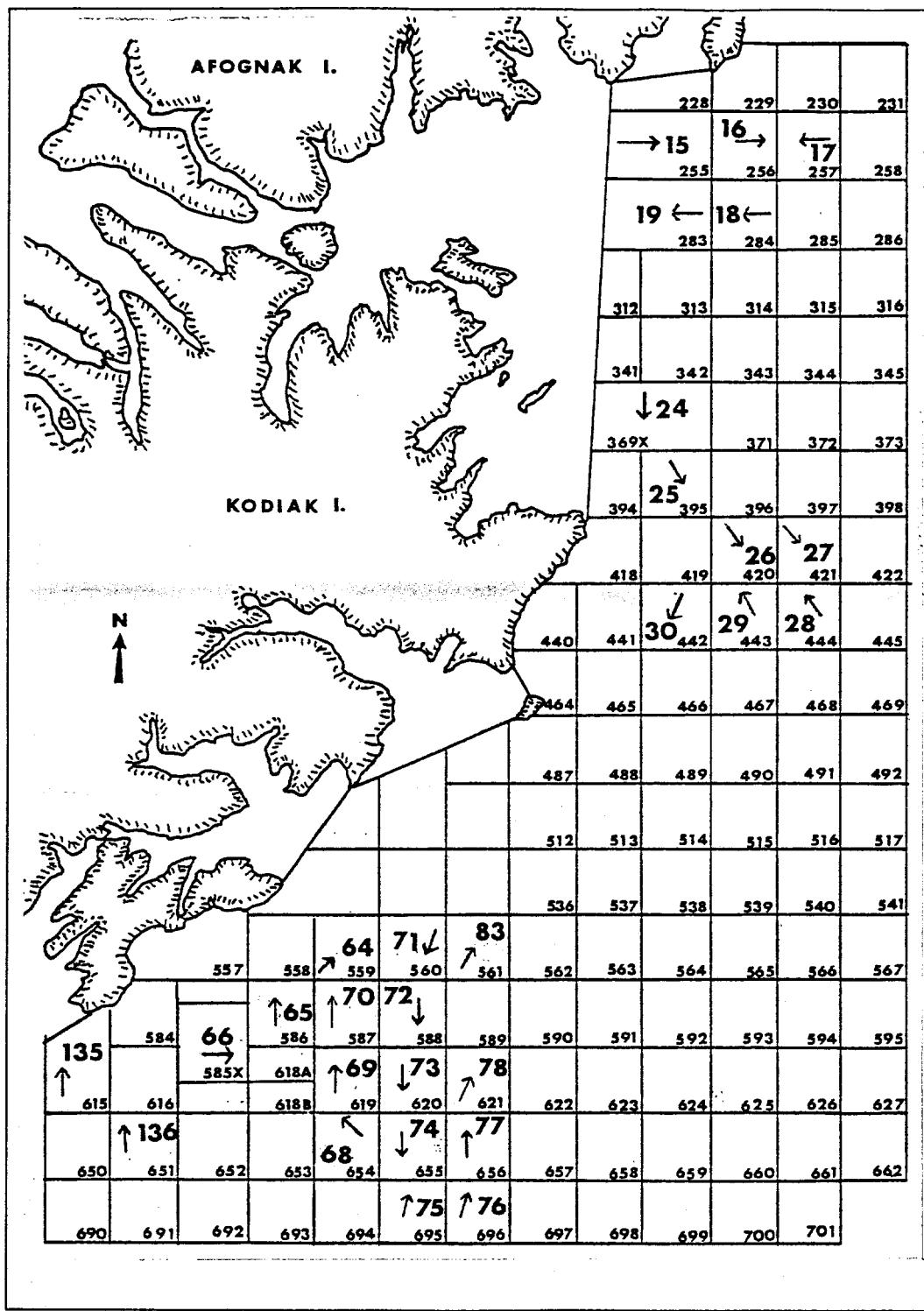
Appendix C. (page 3 of 3).

CHIGNIK DISTRICT									
CHIGNIK BAY SECT.			IVANOF SECTION			MITROFANIA SECT.			CHIGNIK DISTRICT TOTALS
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	
4256	24.1	7.0	4000	15.8	4.6	4035	68.8	20.0	
4264	20.2	5.9	4007	59.5	17.29	4048	14.8	4.3	
4265	6.6	1.9	4008	42.2	12.27	4049	57.3	16.7	
4266	19.7	5.7	400X	5.6	1.6	4063	57.3	16.7	
4267	21.5	6.3	4024	65.9	19.2	4064	57.3	16.7	
4270	17.2	5.0	4915	51.8	15.06	4065	80.3	23.3	
4271	10.3	3.0		240.8	69.99		335.8	97.6	
4272	16.0	4.6							
4274	21.5	6.3	KUJULIK SECTION						
4277	21.5	6.3	Station	KM ²	NM ²				
4278	21.5	6.3	4298	19.3	5.6				
4282	21.5	6.3	4302	21.1	6.1				
4286	21.5	6.3	4308	17.2	5.0				
4287	29.8	8.7	4290	21.5	6.3				
4312	22.0	6.4	4301	21.5	6.3				
4964	9.6	2.8	4296	10.3	3.0				
	304.4	88.5		110.9	32.2				

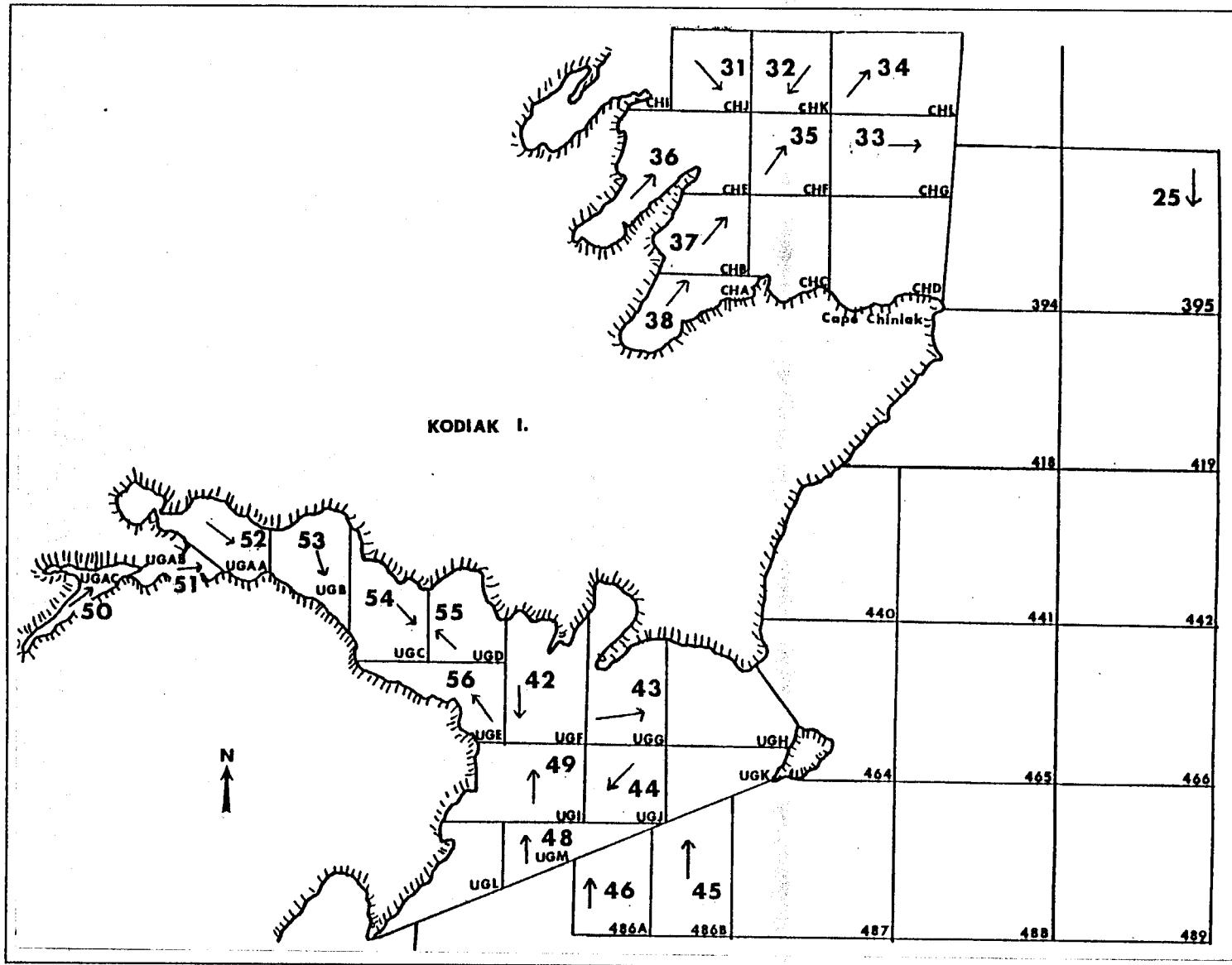
EASTERN ALEUTIAN DISTRICT										
AKUTAN SECTION			UNALASKA BAY SECT			MAKUSHIN SECTION			EASTERN ALEUTIAN DISTRICT TOTALS	
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²		
AKA	33.3	9.7	KAA	19.5	5.7	MKB	16.0	4.6		
AKC	21.3	6.2	UNC	22.7	6.6	MKC	18.5	5.4		
AKD	23.5	6.8	UND	11.7	3.4	MKE	29.2	8.5		
AKG	21.5	6.3	UNE	18.0	5.2	MKF	20.9	6.1		
AKL	21.5	6.3	UNF	21.5	6.3	MKJ	23.6	6.9		
	121	35.2	UNG	21.5	6.3	MKK	37.6	10.9		
			UNI	19.8	5.8	MKN	26.2	7.6		
			UNJ	21.5	6.3	MKP	12.3	3.6		
				156	45.4		184.5	53.6		
BEAVER INLET SECT.			AKUN BAY SECTION			USOF BAY SECTION				
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	SECTION KM ² NM ² Akutan 121.1 35.2 Beaver I. 175.9 51.1 Inanudak 81.67 23.7 Unalaska 156.1 45.4 Akun 69.59 20.2 Cape Idak 64.5 18.8 Makushin 184.5 53.6 Usof Bay 88.48 25.7 Pumistone 20.06 5.8 961.8 279.6	
BIB	17.5	5.1	ANA	24.1	7.0	USA	13.0	3.8		
BID	19.1	5.5	AND	24.0	7.0	USB	19.8	5.8		
BIG	22.7	6.6	ANE	21.5	6.3	USC	21.5	6.3		
BIK	13.1	3.8		69.6	20.2	USF	13.8	4.0		
BIN	17.5	5.1				USG	20.4	5.9		
BIU	86.0	25.0					88.48	25.7		
	176	51.1								
INANUDAK SECTION			CAPE IDAK SECTION			PUMISTONE SECTION				
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²		
INA	19.2	5.6	IDG	21.5	6.3	PUA	4.8	1.4		
INB	19.5	5.7	IDH	21.5	6.3	PUB	15.3	4.4		
INF	21.5	6.3	IDK	21.5	6.3		20.06	5.83		
INJ	21.5	6.3		64.5	18.8					
	81.7	23.7								



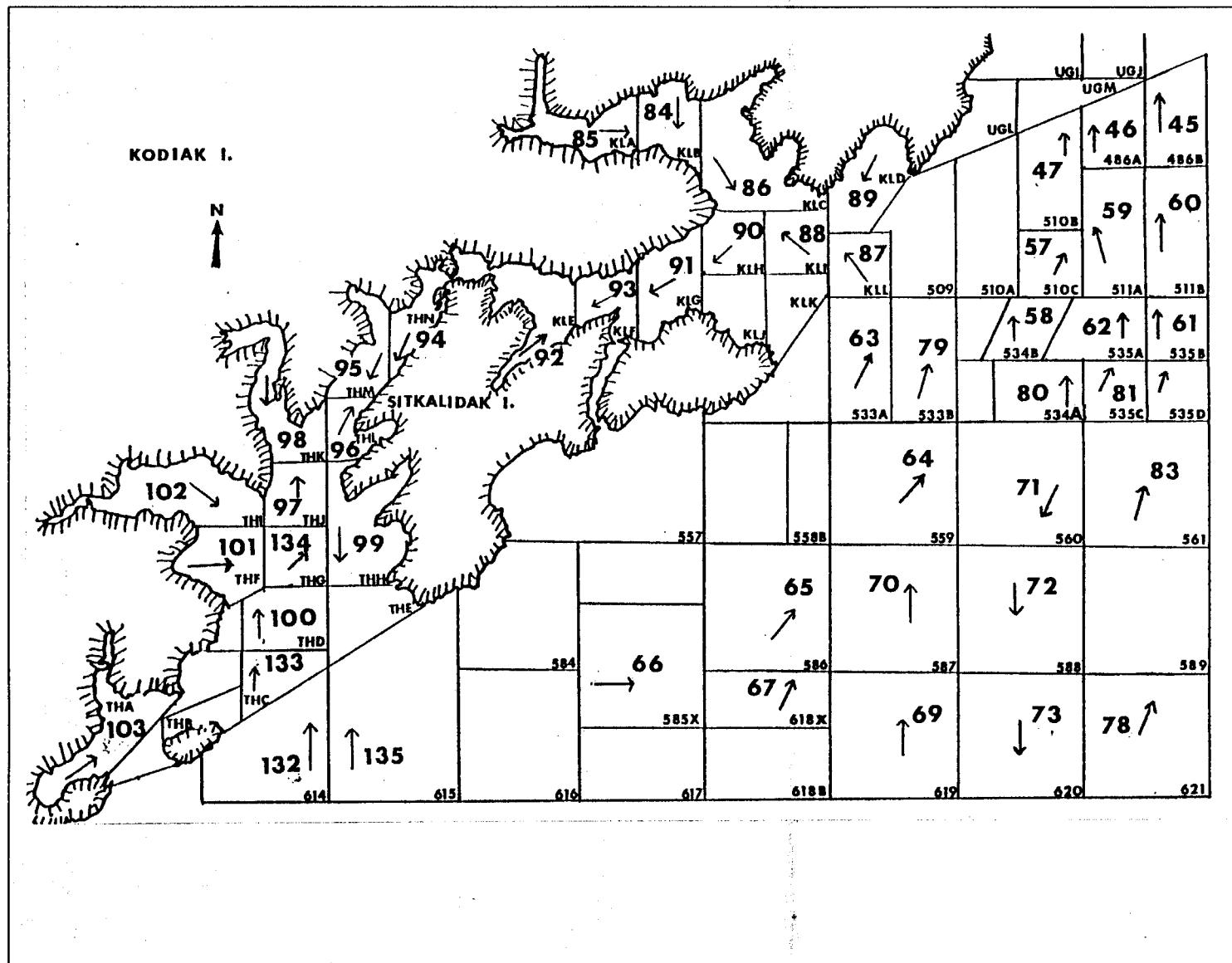
Appendix D.1 Station location and number designations and trawl haul (arrows) locations and numbers, north Kodiak Island and West Afognak Island: June and September 1994.



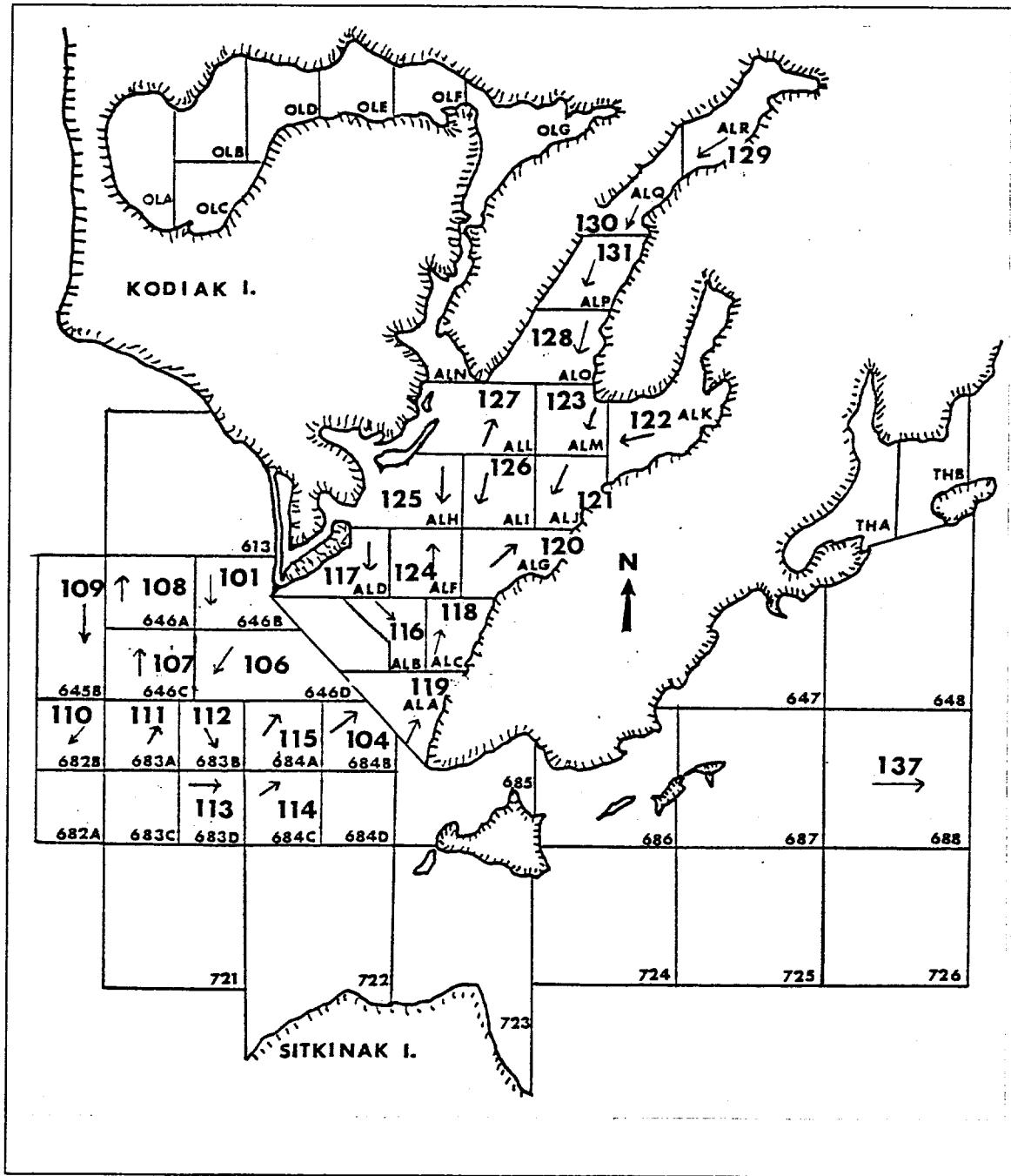
Appendix D.2. Station location and number designations and trawl haul locations (arrows) and numbers, off-shore Marmot Bay, Chiniak Bay and Barnabas Gully, June and July, 1994.



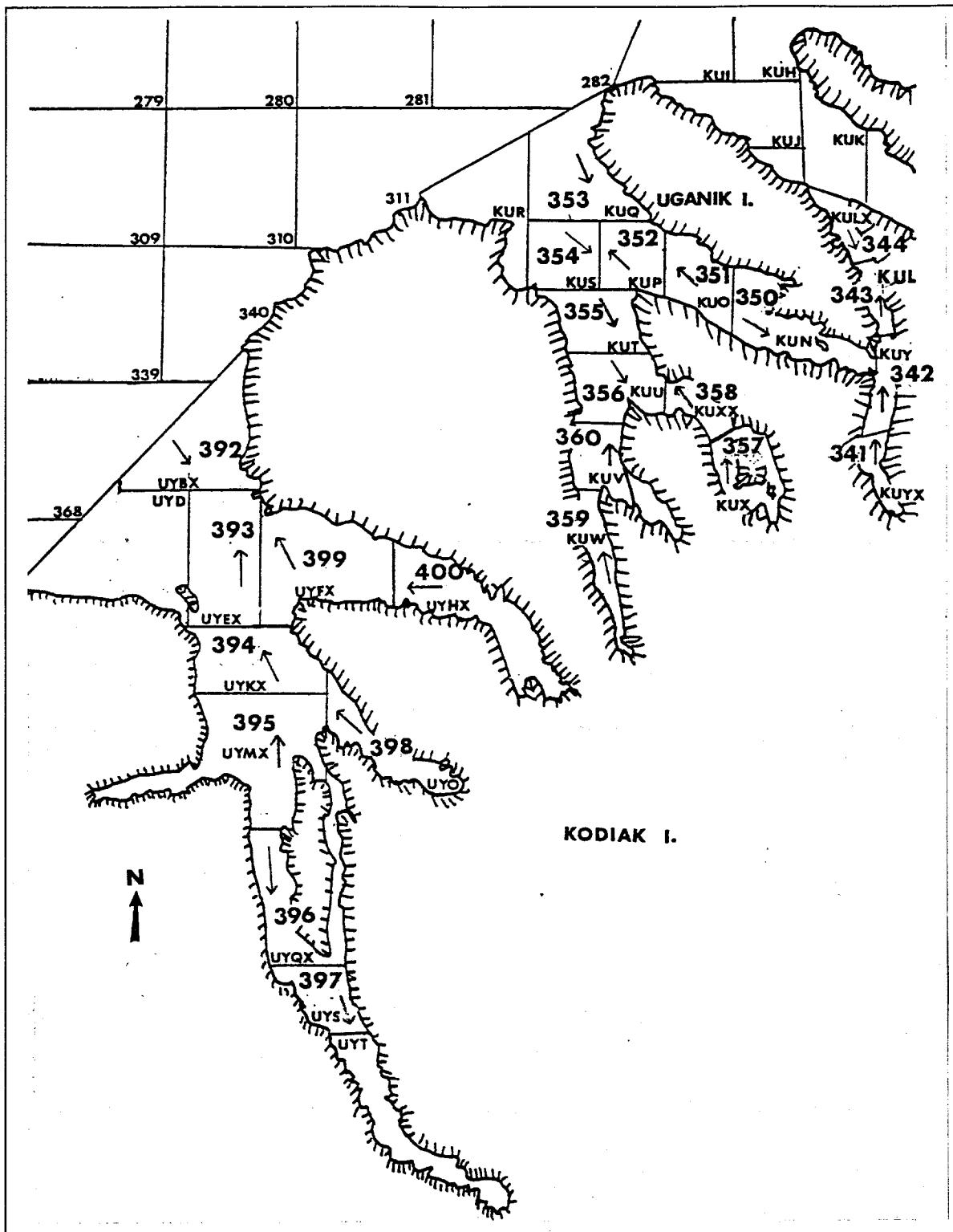
Appendix D.3. Station location and number designations and trawl haul locations (arrows) and numbers, Chiniak Bay and Ugak Bay, June and July, 1994.



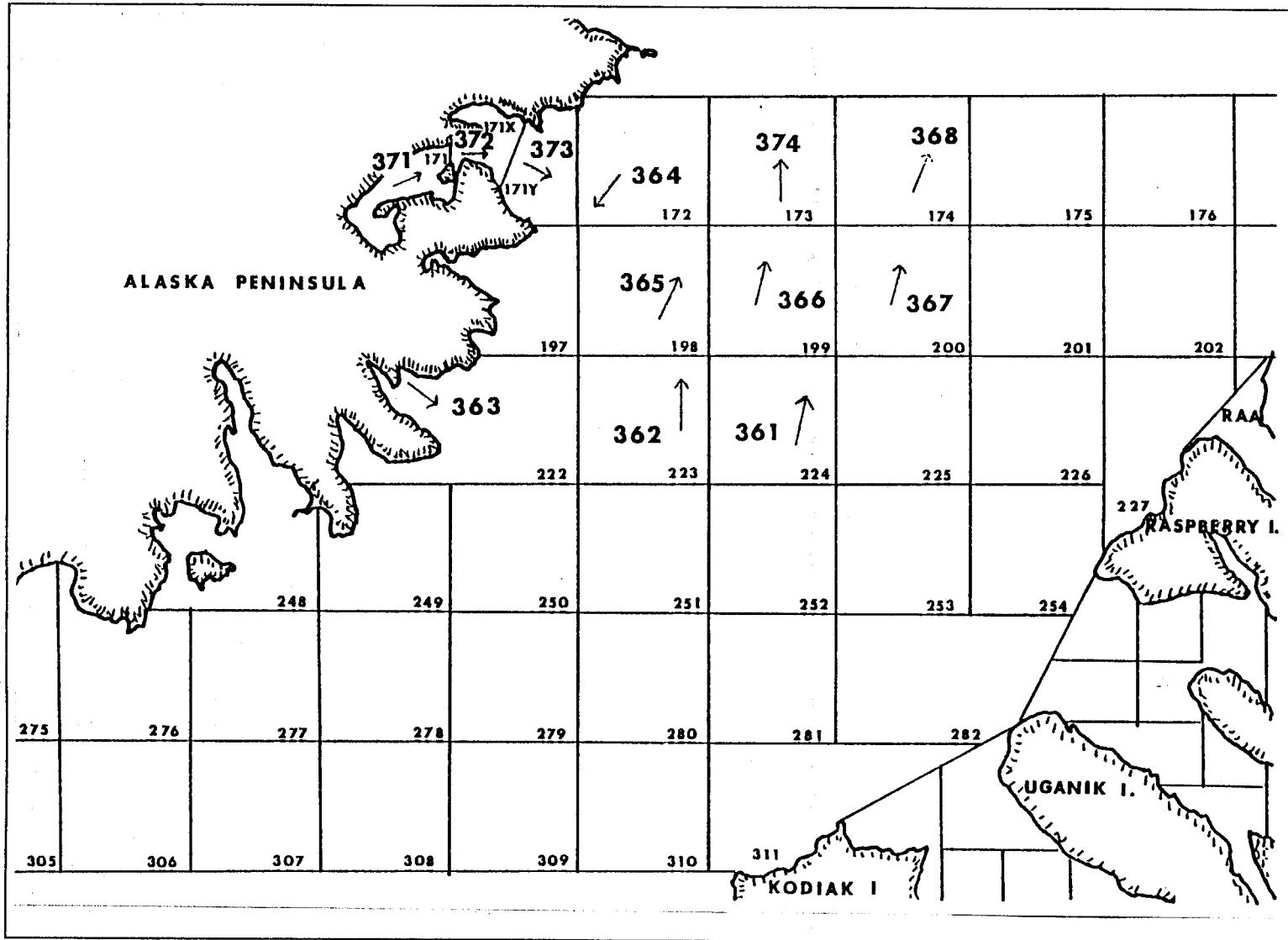
Appendix D.4. Station location and number designations and trawl haul locations (arrows) and numbers, Kiliuda Bay, and South Sitkalidak Strait, June and July, 1994.



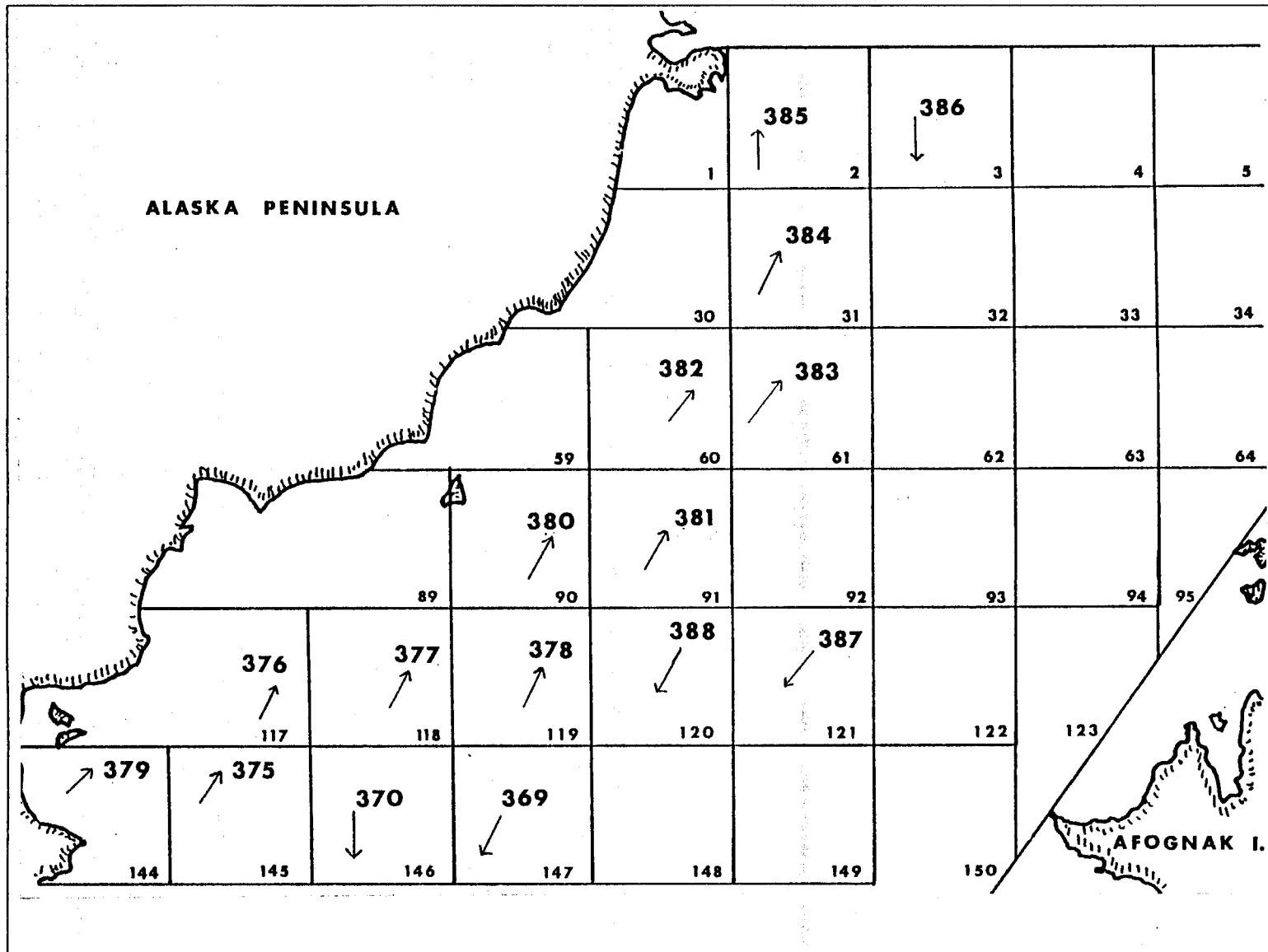
Appendix D.5. Station location and number designations and trawl haul locations (arrows) and numbers, Alitak Bay area, July 1994.



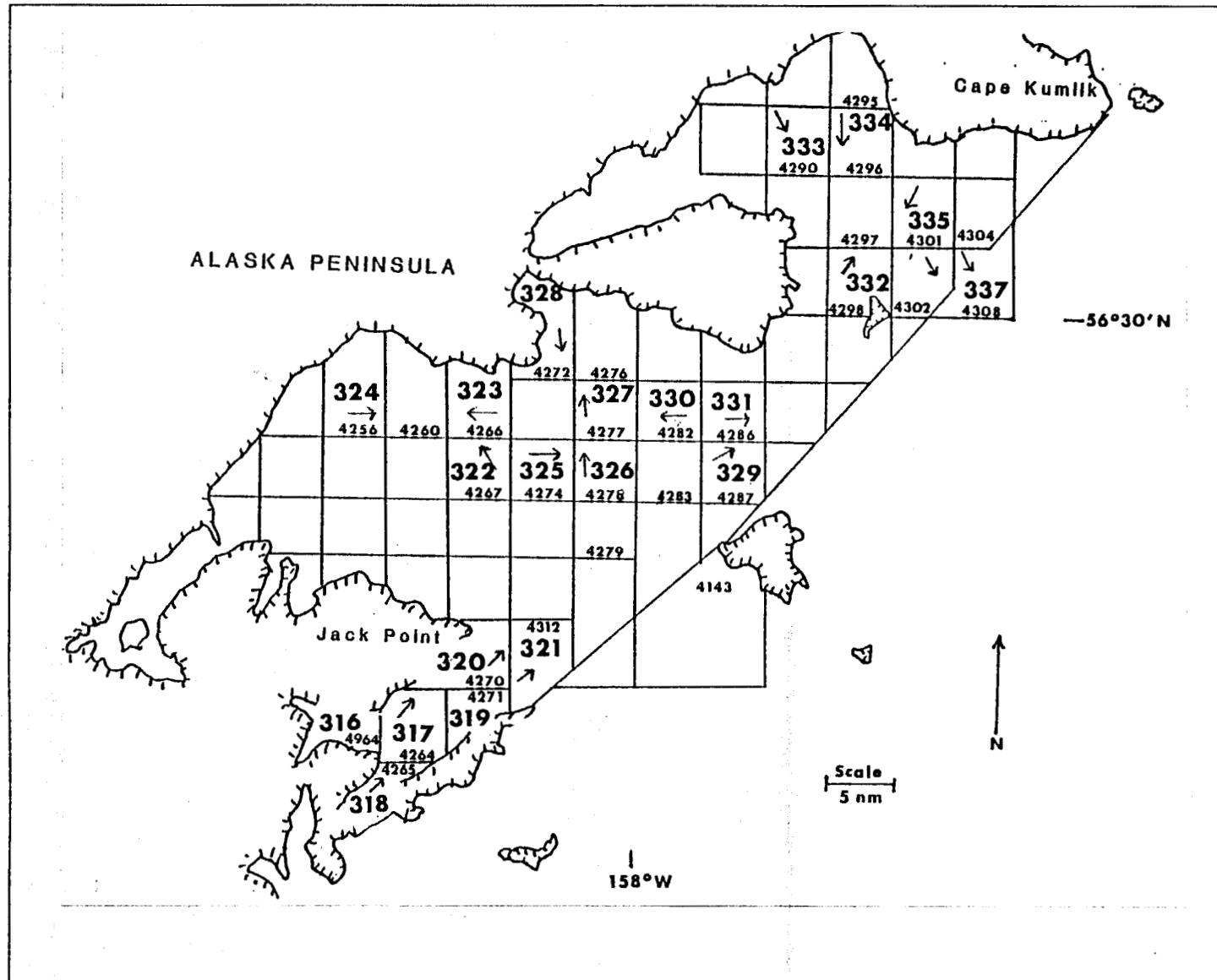
Appendix D.6. Station location and number designations and trawl haul locations (arrows) and numbers, Uganik Bay and Uyak, September 1994.



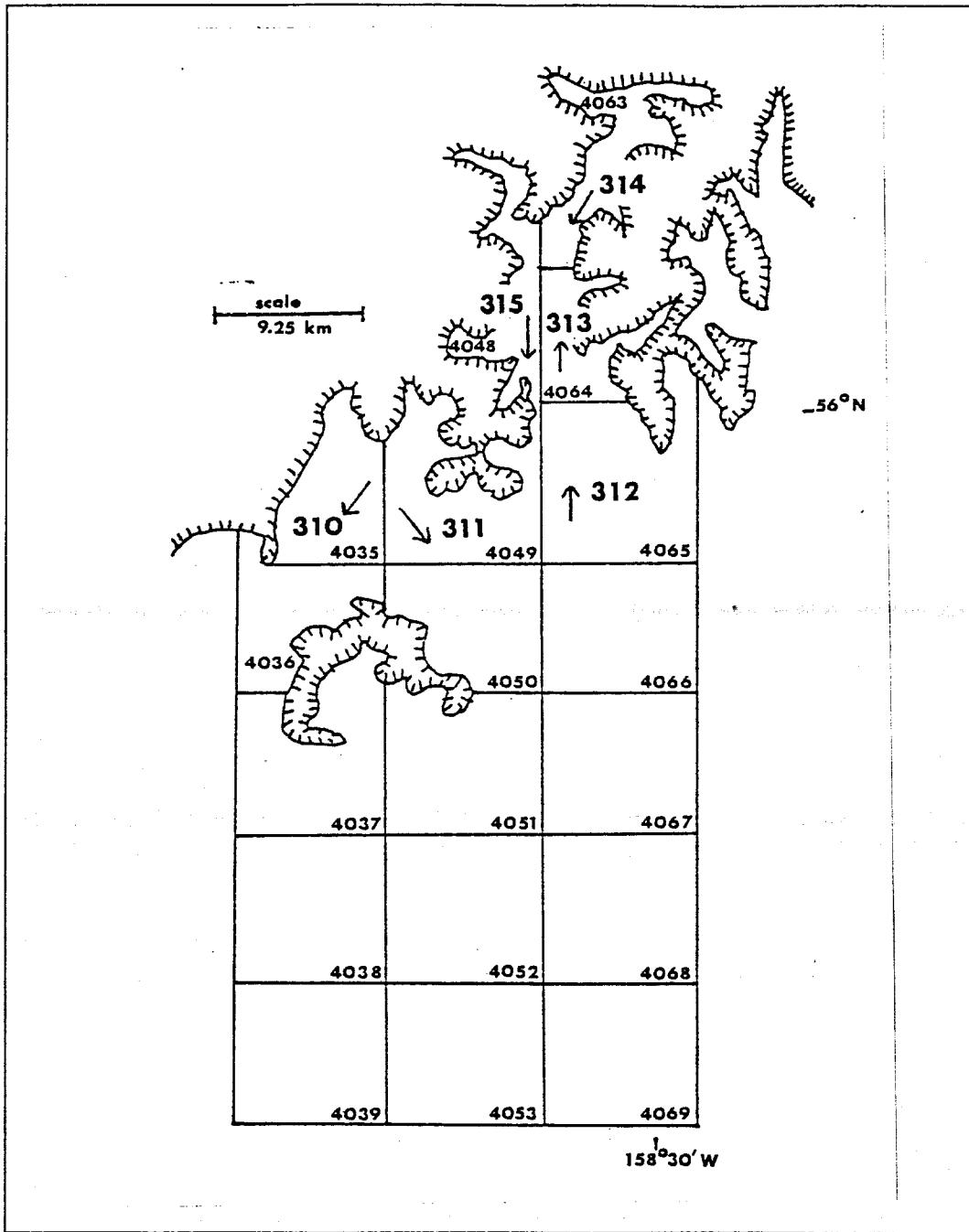
Appendix D.7. Station location and number designations and trawl haul locations (arrows) and numbers, north Shelikof Strait, September 1994.



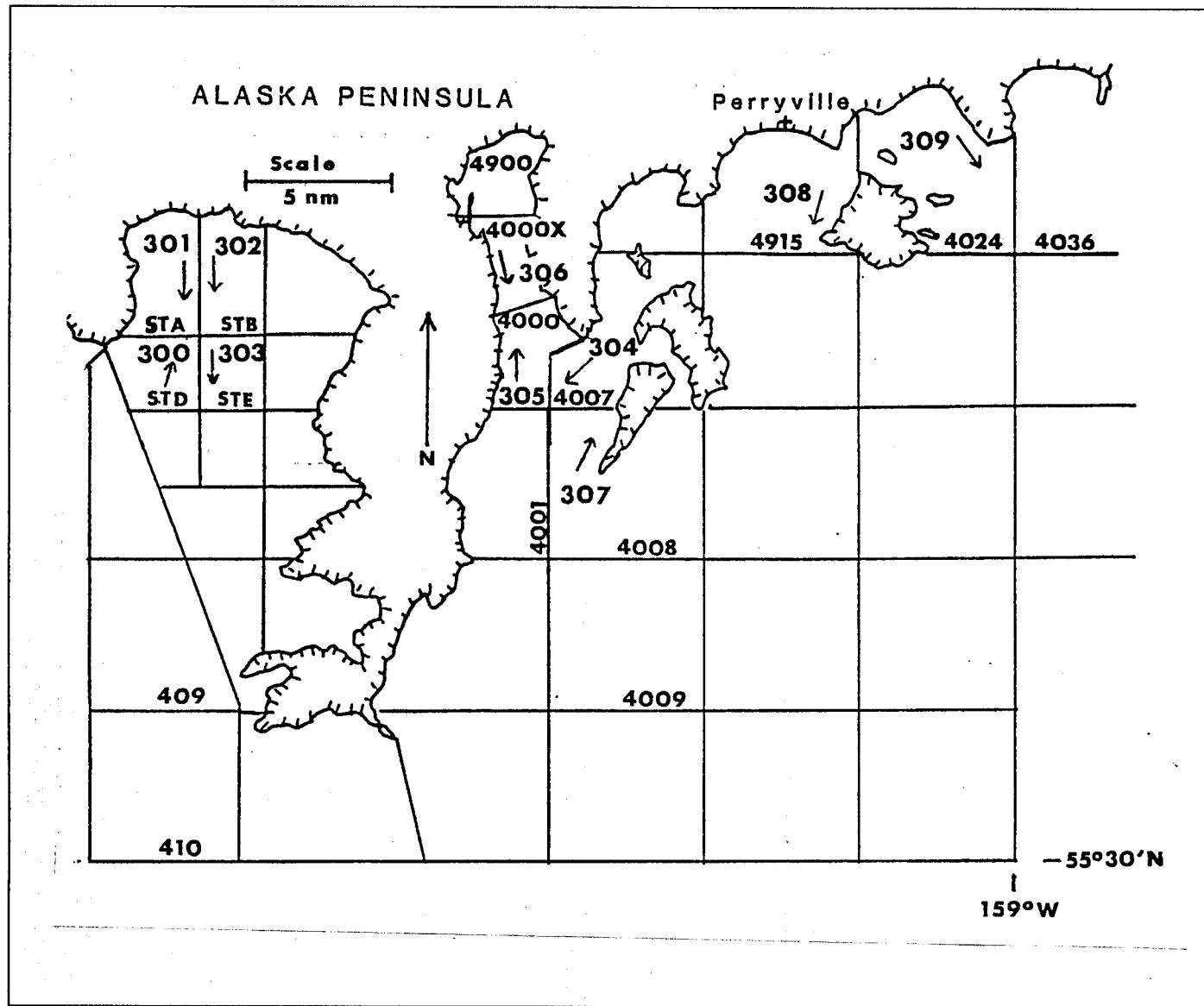
Appendix D.8. Station location and number designations and trawl haul locations (arrows) and numbers, north Shelikof Strait, September 1994.



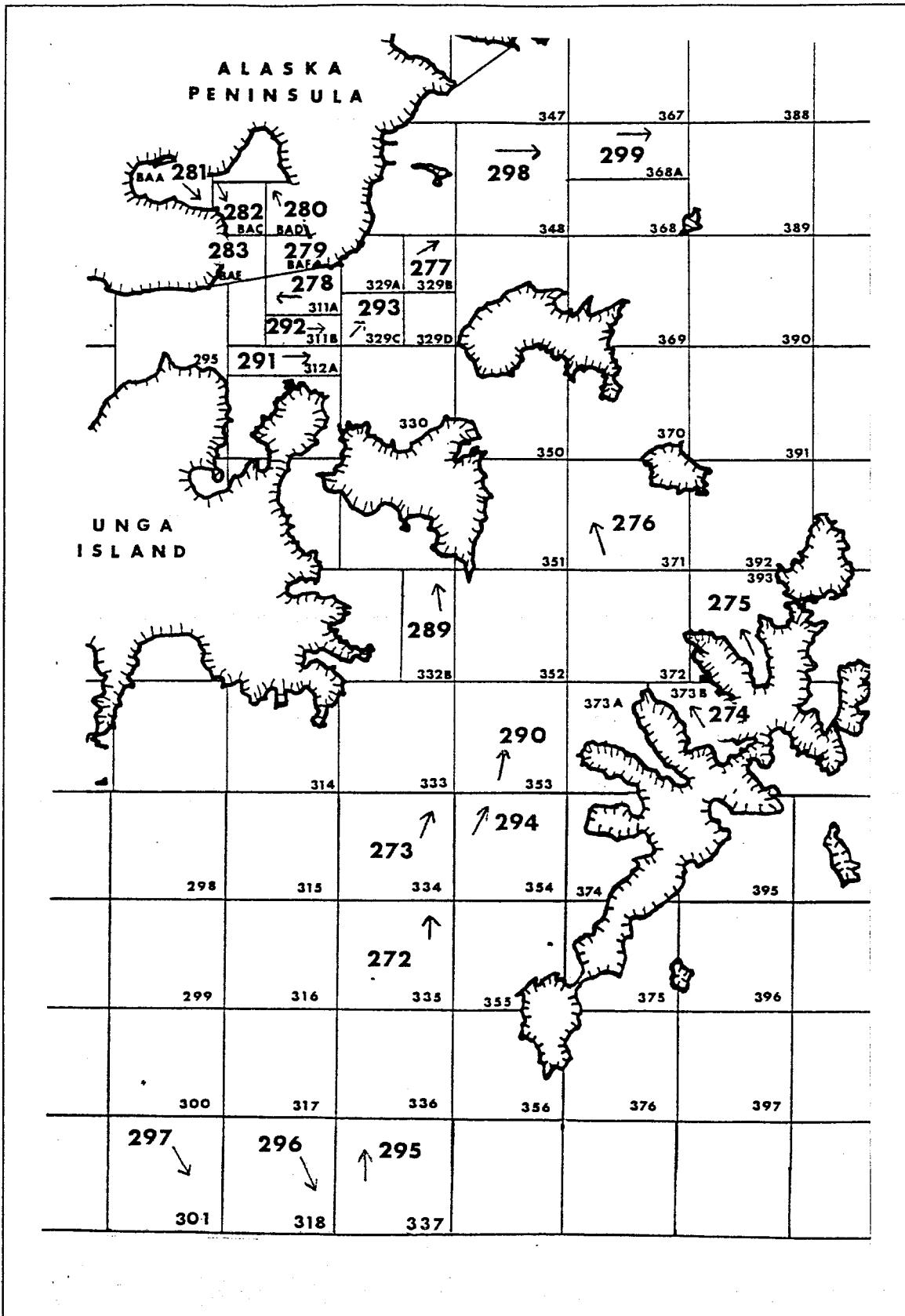
Appendix D.9. Station location and number designations and trawl haul locations (arrows) and numbers, Chignik Bay, Kujulik Bay, and Castle Bay, September 1994.



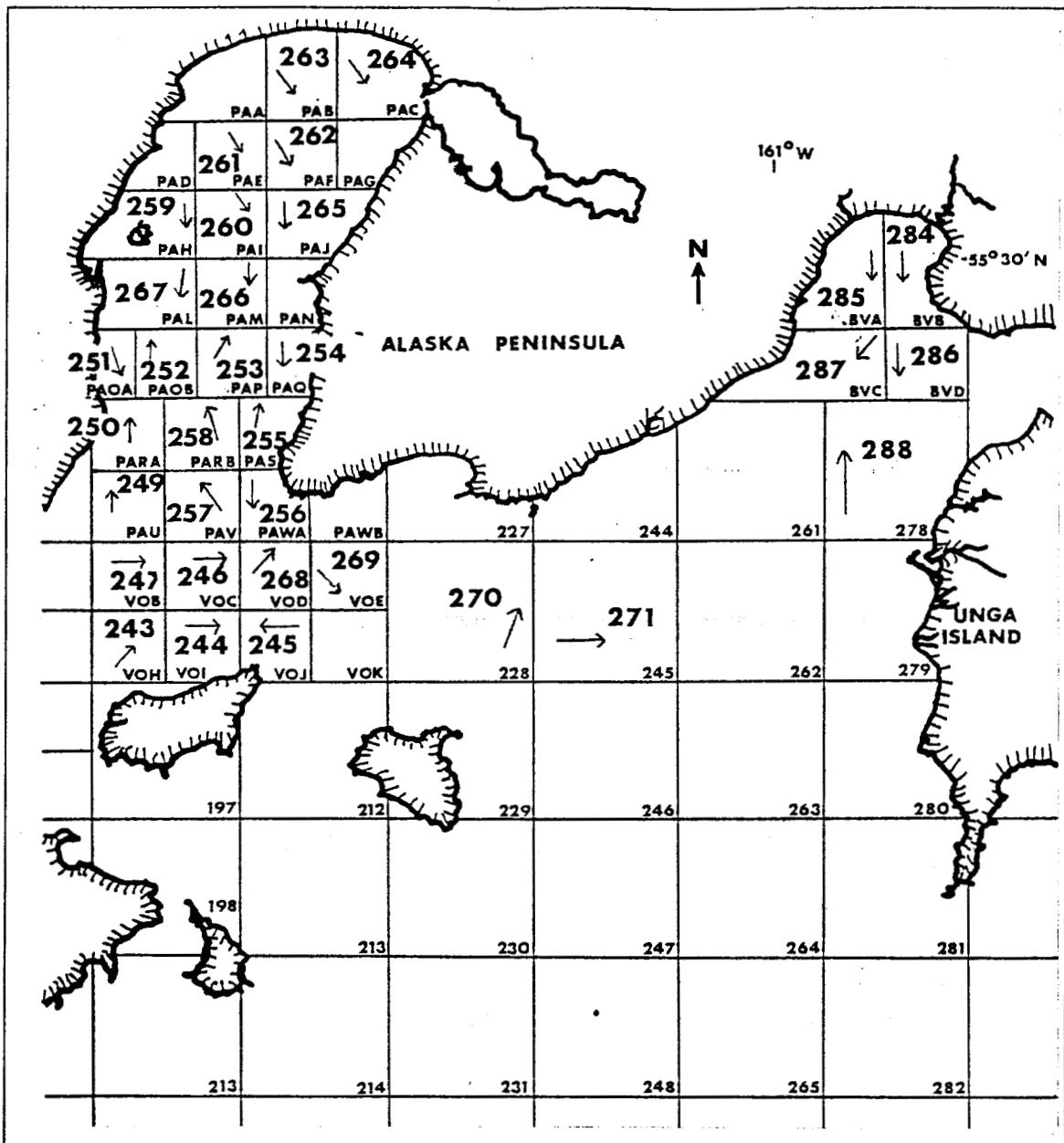
Appendix D.10. Station location and number designations and trawl haul locations (arrows) and numbers, Kuiukta Bay and Mitrofania Island Area, August 1994.



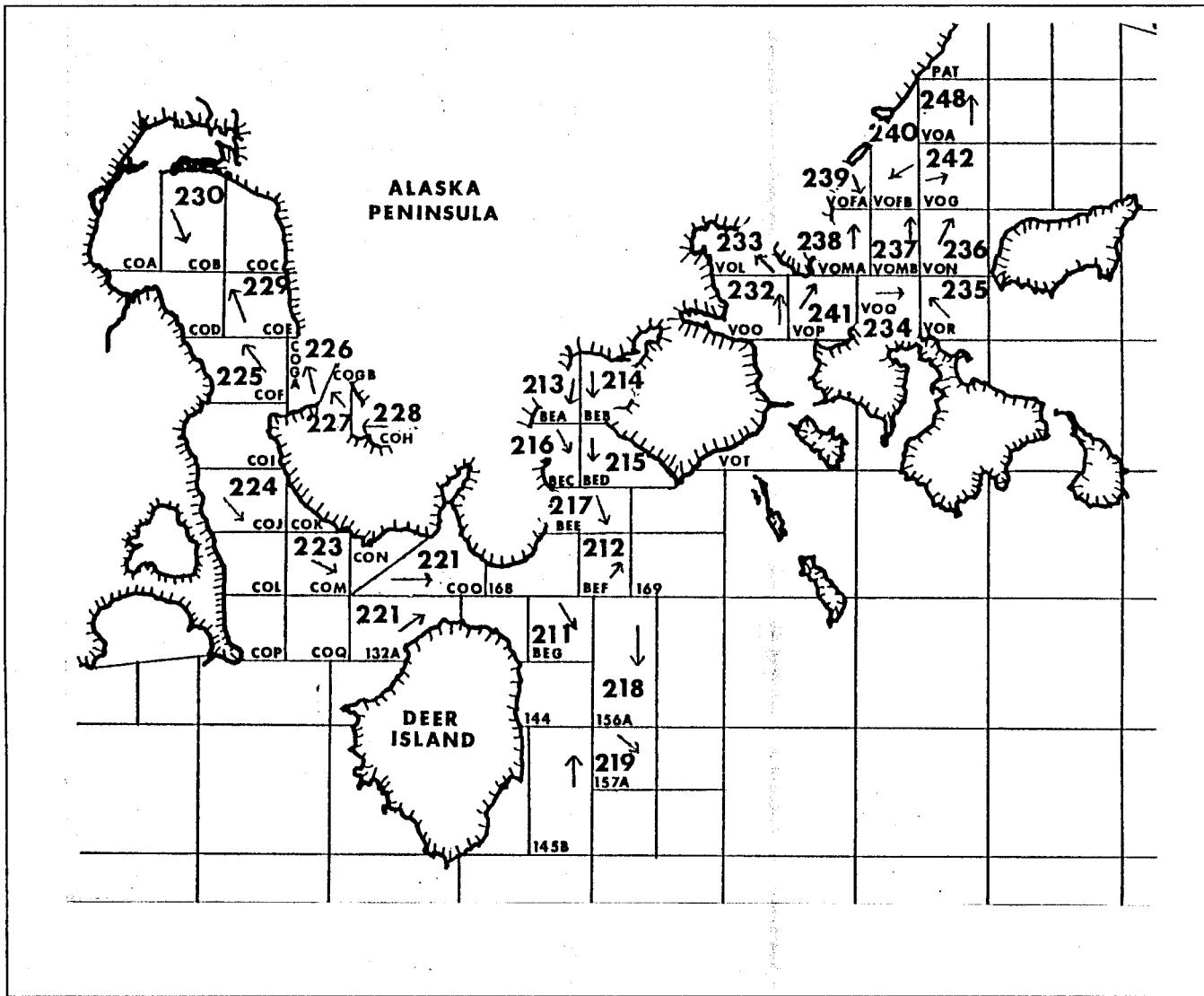
Appendix D.11. Station location and number designations and trawl haul locations (arrows) and numbers, Ivanof Bay and Stepovak Bay, August 1994.



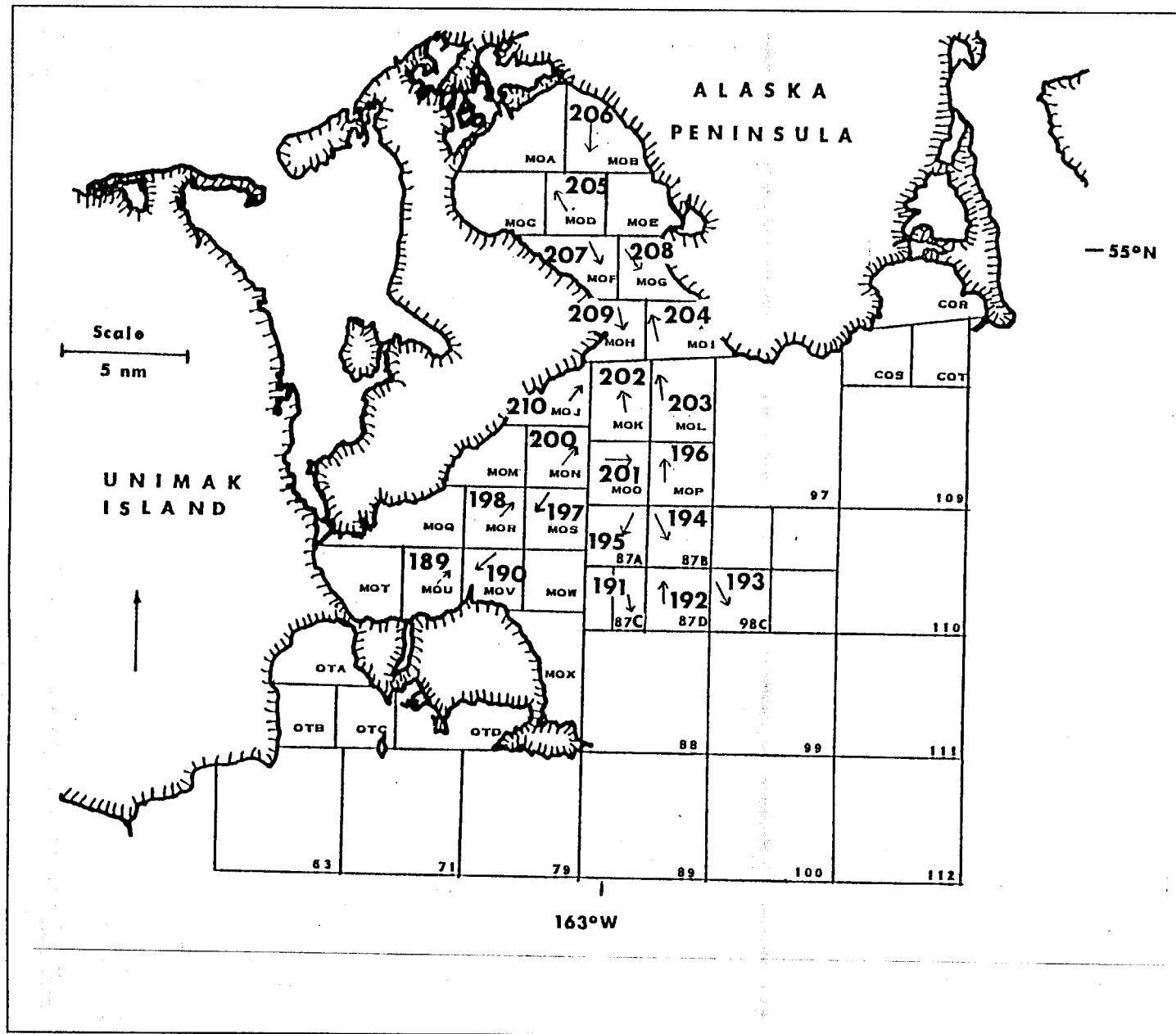
Appendix D.12. Station location and number designations and trawl haul locations (arrows) and numbers, Unga Island area, August 1994.



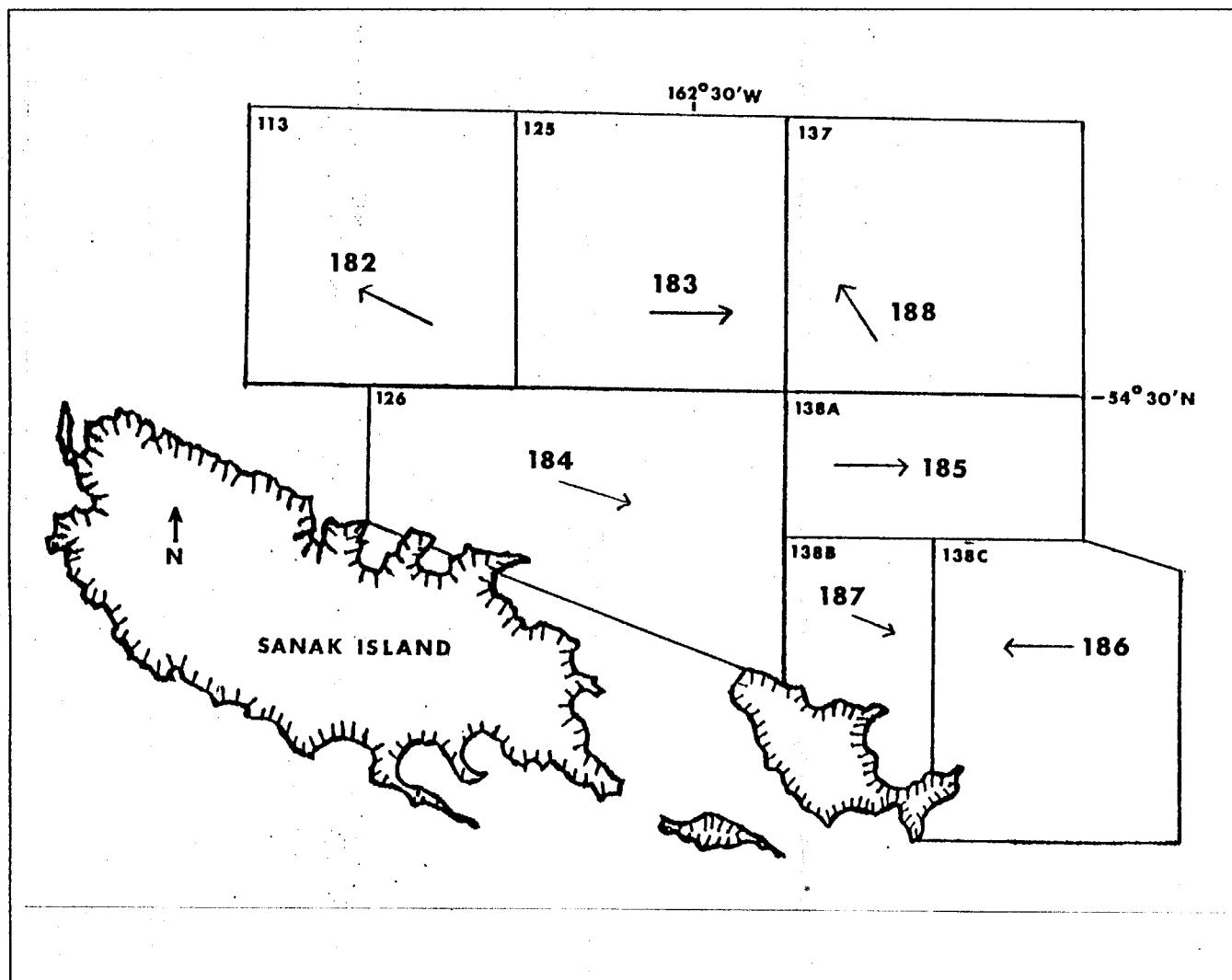
Appendix D.13. Station location and number designations and trawl haul locations (arrows) and numbers, Pavlof Bay and Beaver Bay, August 1994.



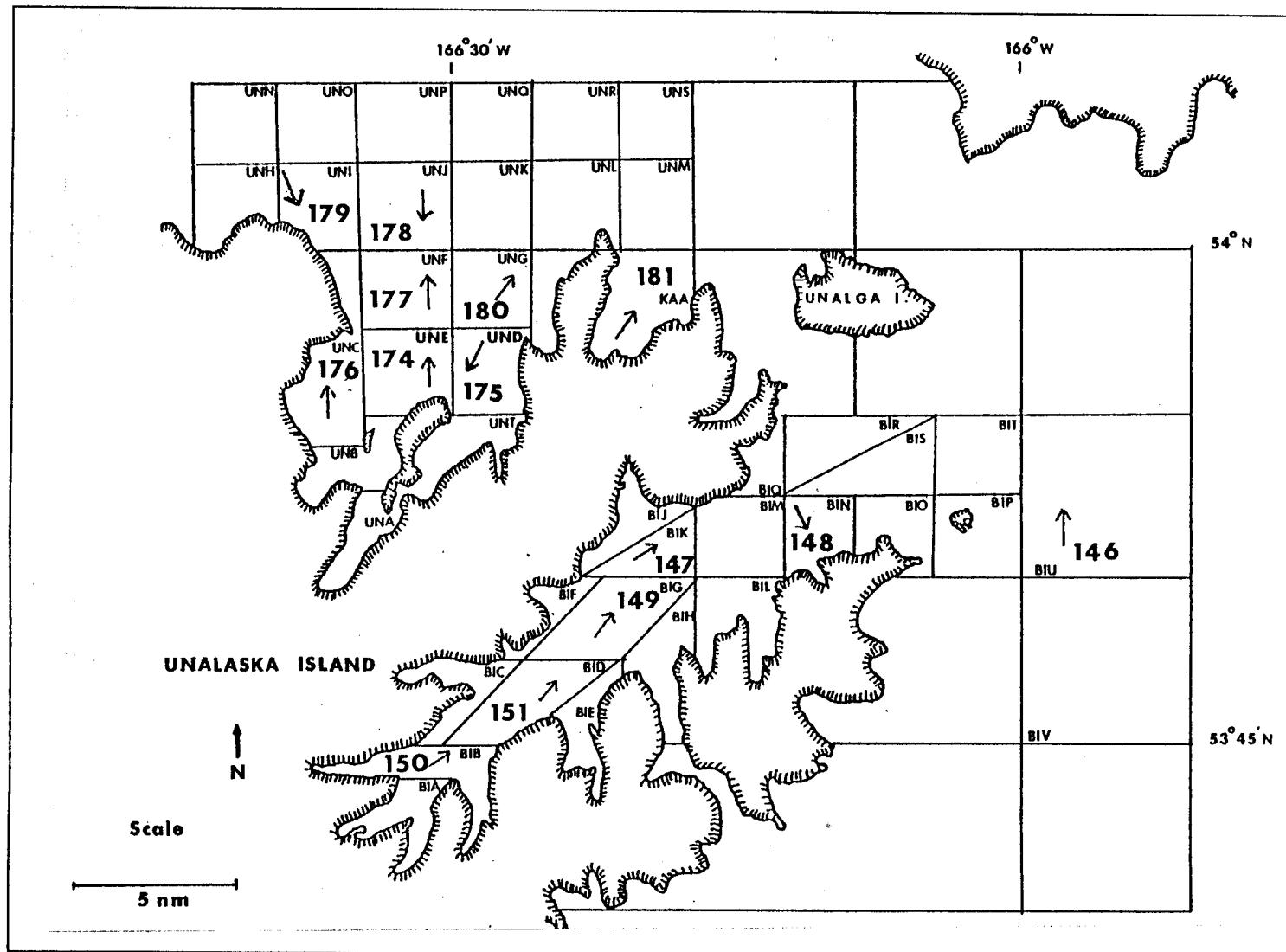
Appendix D.14. Station location and number designations and trawl haul locations (arrows) and numbers, Cold Bay, Belkofski Bay, and Volcano Bay, August 1994.



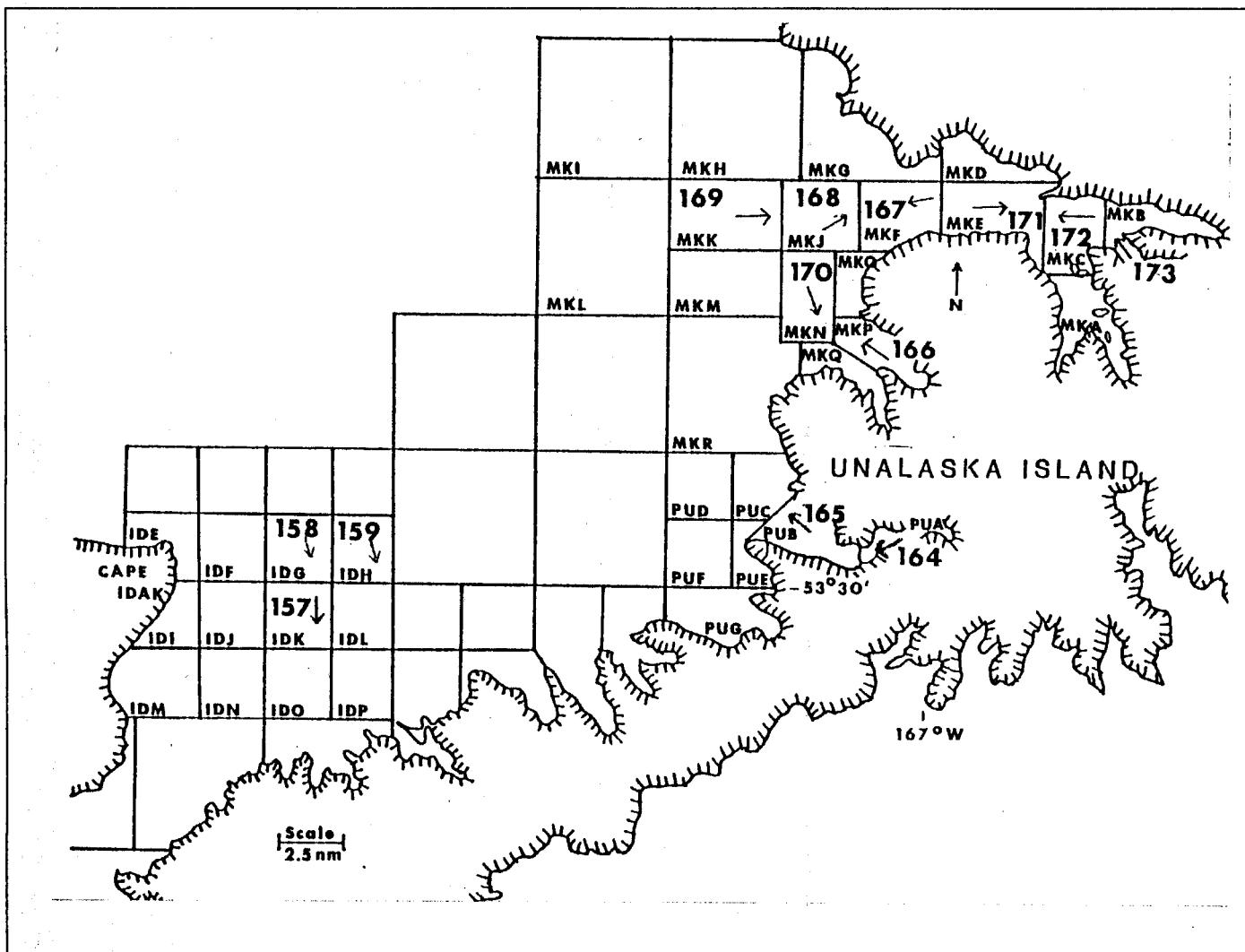
Appendix D.15. Station location and number designations and trawl haul locations (arrows) and numbers, Morzhovoi Bay, August 1994.



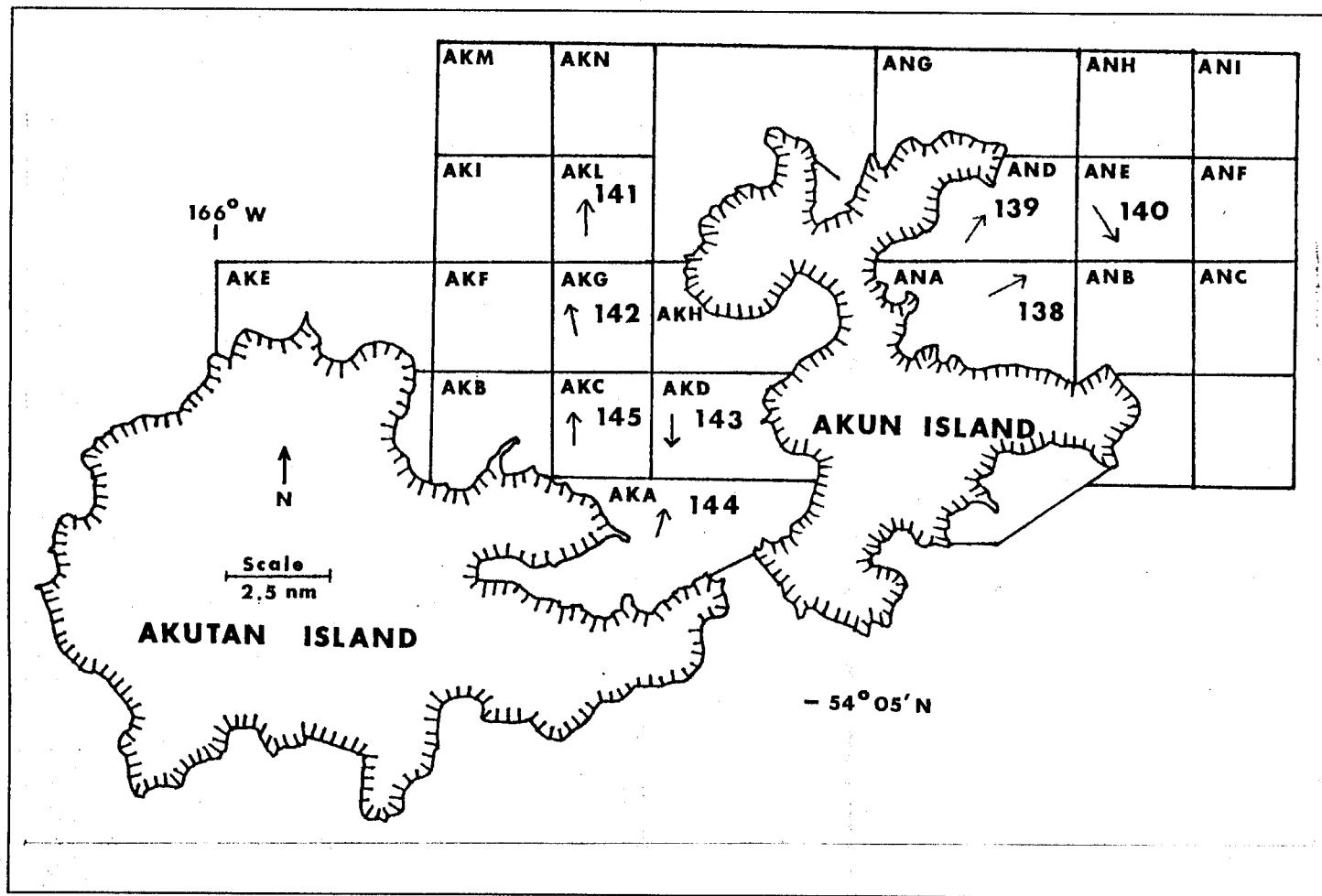
Appendix D.16. Station location and number designations and trawl haul locations (arrows) and numbers, Sanak Island Area, August 1994.



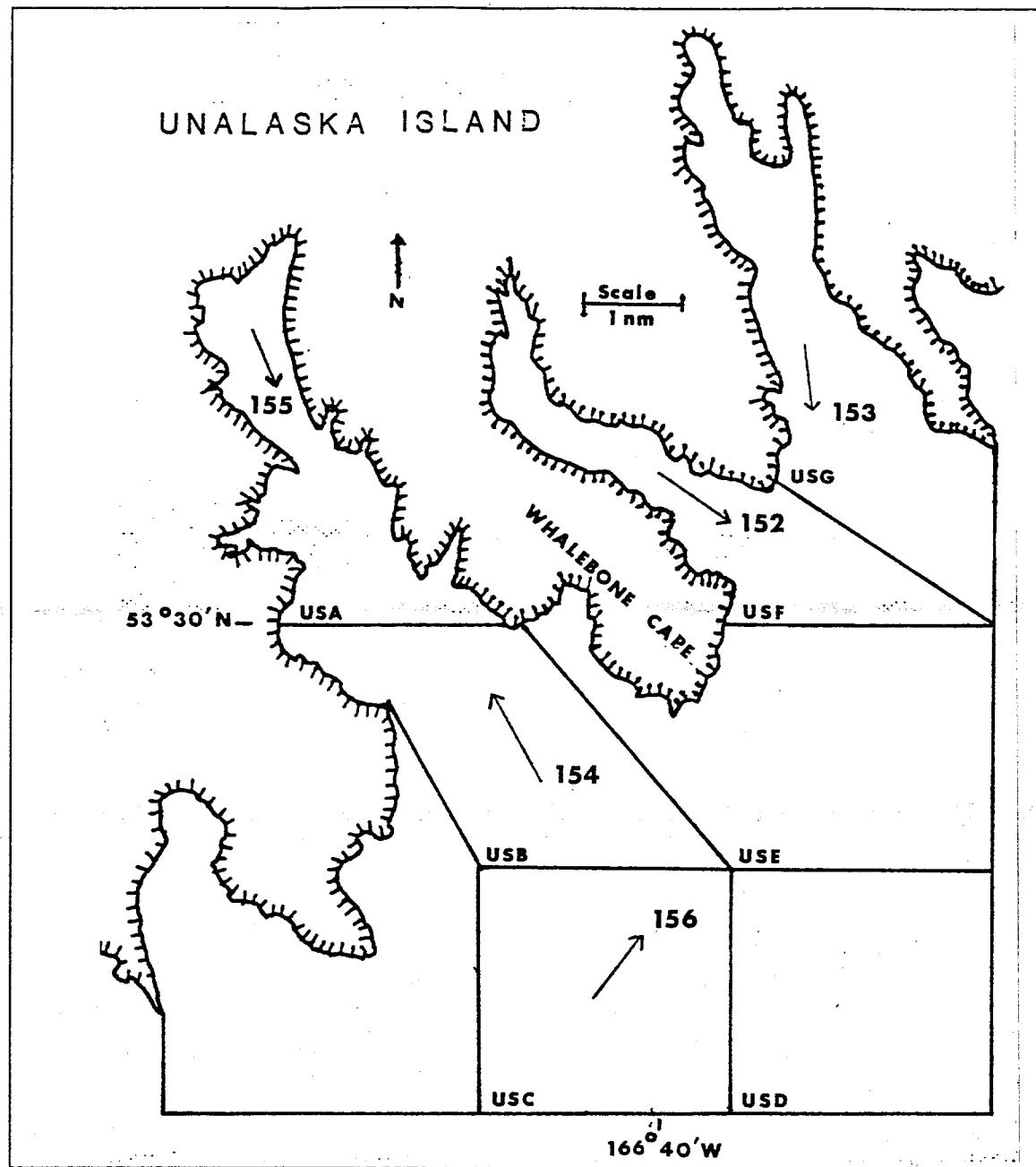
Appendix D.17. Station location and number designations and trawl haul locations (arrows) and numbers, Unalaska Bay and Beaver Inlet, August 1994.



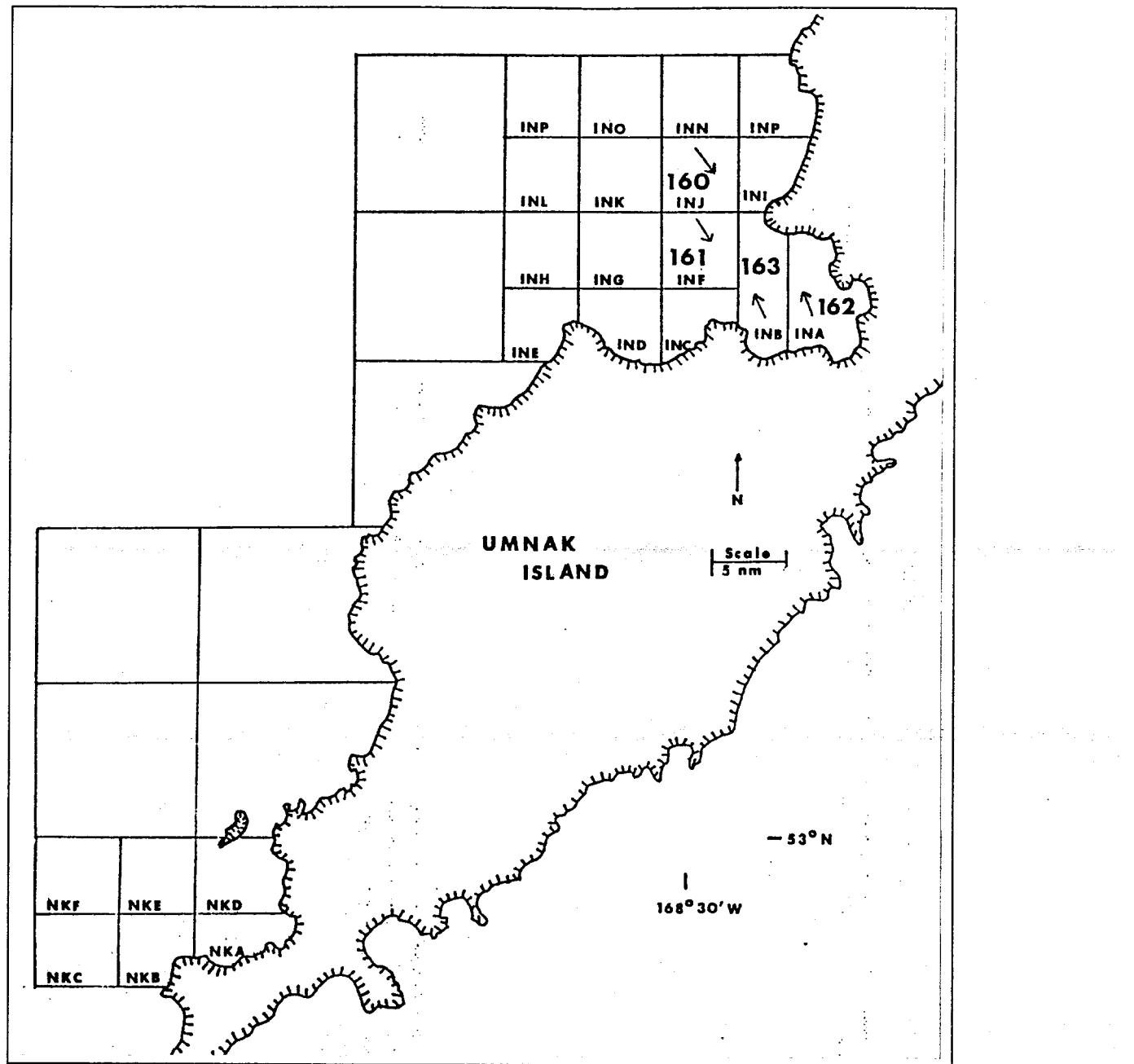
Appendix D.18. Station location and number designations and trawl haul locations (arrows) and numbers, Cape Idak, Pumistone Bay, and Makushin Bay, August 1994.



Appendix D.19. Station location and number designations and trawl haul locations (arrows) and numbers, Akutan Bay and Akun Bay, July and August 1994.



Appendix D.20. Station location and number designations and trawl haul locations (arrows) and numbers, Usof Bay area, August 1994.



Appendix D.21. Station location and number designations and trawl haul locations (arrows) and numbers, Inanudak Bay, August 1994.

Appendix E. Numbers of Tanner crab per 1.85 km (1 nautical mile) in 1994 in the Kodiak Management District with population index by section.

Sta tion	Tow #	Females		Sublegal Males				Recruit		Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114	<165	>164				
NORTHEAST														
kzc	1	0	0	0	0	0	0	0	0	0	0	0	0	0
kzb	2	1	3	4	1	1	3	7	10	0	0	10	23	27
kza	3	4	0	4	1	0	0	0	0	0	0	0	1	5
kzd	4	3	1	4	3	1	14	39	14	0	1	16	73	77
kze	5	10	0	10	8	1	0	0	0	0	0	0	9	19
kzf	6	23	4	27	14	4	4	6	0	0	0	0	29	56
kzg	7	4	0	4	3	0	0	0	0	0	0	0	3	7
kzj	8	26	1	27	22	0	0	0	0	0	0	0	22	49
kzk	9	22	1	23	32	6	0	1	0	0	0	0	39	62
moex	10	17	0	17	10	0	0	0	0	0	0	0	10	27
mogx	11	1	1	2	1	0	2	7	4	0	0	4	14	17
molx	12	8	192	200	7	2	16	51	3	17	0	20	96	296
mopx	13	15	2	17	24	1	0	0	1	1	0	2	27	44
moxx	14	51	1	52	57	5	4	2	0	0	0	0	68	120
255	15	3	40	43	0	0	11	16	1	5	0	6	33	76
256	16	0	0	0	2	0	0	1	0	0	0	0	3	3
257	17	0	0	0	0	0	0	0	0	0	0	0	0	0
284	18	0	0	0	1	0	0	0	0	0	0	0	1	1
283	19	0	0	0	5	0	0	4	0	0	0	0	9	9
kzs	20	9	162	171	6	9	10	20	3	0	0	3	48	219
kzr	21	28	52	80	8	21	7	9	4	0	0	4	49	129
monx	22	9	14	23	9	14	8	6	1	1	0	2	39	62
kzo	23	12	3	15	16	1	2	0	0	0	0	0	19	34
369x	24	0	0	0	0	0	0	0	0	0	0	0	0	0
395	25	0	0	0	0	0	0	0	0	0	0	0	0	0
420	26	0	0	0	0	0	0	0	0	0	0	0	0	0
421	27	3	1	4	2	1	0	0	0	0	0	0	3	7
444	28	1	0	1	1	0	0	0	0	0	0	0	1	2
443	29	0	0	0	0	0	0	0	0	0	0	0	0	0
442	30	0	0	0	0	0	0	0	0	0	0	0	0	0
chj	31	1	0	1	0	1	0	0	0	0	0	0	1	2
chk	32	33	150	183	13	11	20	39	35	2	1	38	121	304
chg	33	0	6	6	1	0	1	2	1	0	0	1	5	11
chl	34	14	60	74	19	2	3	6	0	2	0	2	32	106
chf	35	72	164	236	68	81	79	51	44	2	0	46	325	561
che	36	5	0	5	2	2	2	0	0	0	0	0	5	10
chb	37	45	4	49	28	16	15	25	22	0	3	25	109	158
cha	38	3	0	3	3	0	0	0	1	0	0	1	4	7
cha	39	0	0	0	0	0	0	0	0	0	0	0	0	0

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Sta tion	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
chb	40	36	1	37	29	7	0	0	4	0	0	4	40	77
chj	41	2	8	10	3	0	0	0	0	0	0	0	3	13
Pop Est		606256	1227010	1833265	627897	170908	255845	455371	102589	98082	2401	203072	1713093	3546358
EASTSIDE														
ugf	42	0	0	0	0	0	0	0	0	0	0	0	0	0
ugg	43	0	0	0	0	0	0	0	0	0	0	0	0	0
ugj	44	0	0	0	0	0	0	0	0	0	0	0	0	0
486b	45	0	0	0	0	0	0	0	0	0	0	0	0	0
486a	46	2	1	3	4	0	0	1	0	1	0	1	6	9
510b	47	0	4	4	1	0	2	3	0	1	0	1	7	11
ugm	48	0	8	8	1	0	1	7	0	1	0	1	10	18
ugi	49	2	0	2	3	0	0	0	0	0	0	0	3	5
ugac	50	0	0	0	0	0	0	0	0	0	0	0	0	0
ugab	51	90	11	101	18	93	40	12	2	1	0	3	166	267
ugaa	52	104	3	107	80	266	28	5	8	0	4	12	391	498
ugb	53	7	0	7	7	8	3	0	1	0	0	1	19	26
ugc	54	298	18	316	118	276	8	6	0	2	0	2	410	726
ugd	55	2	0	2	4	0	0	0	0	0	0	0	4	6
uge	56	12	43	55	3	48	109	46	4	2	0	6	212	267
510c	57	0	0	0	0	0	0	0	0	0	0	0	0	0
534b	58	0	0	0	0	0	0	0	0	0	0	0	0	0
511a	59	0	0	0	0	0	0	0	0	0	0	0	0	0
511b	60	0	0	0	0	0	0	0	0	0	0	0	0	0
535b	61	2	1	3	0	0	4	19	0	2	0	2	25	28
535a	62	2	3	5	0	0	2	39	0	4	0	4	45	50
533a	63	2	0	2	8	0	0	0	0	0	0	0	8	10
559	64	79	26	105	34	13	4	13	0	6	0	6	70	175
654	68	0	0	0	0	0	0	3	0	1	0	1	4	4
619	69	9	23	32	4	1	2	11	0	3	0	3	21	53
587	70	9	2	11	8	2	3	7	0	2	0	2	22	33
560	71	6	2	8	11	0	1	1	0	0	0	0	13	21
588	72	102	5	107	73	4	3	9	0	1	0	1	90	197
620	73	22	9	31	28	2	5	9	0	4	0	4	48	79
655	74	34	22	56	37	9	13	8	0	5	0	5	72	128
695	75	7	2	9	9	22	36	23	0	6	0	6	96	105
696	76	17	15	32	16	1	6	19	4	4	0	8	50	82
656	77	57	18	75	49	11	7	8	0	0	0	0	75	150
621	78	18	3	21	19	1	4	3	0	0	0	0	27	48
533b	79	2	0	2	0	0	0	0	2	0	0	0	2	4
534a	80	0	0	0	0	0	0	0	0	0	0	0	0	0

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Sta tion	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
535c	81	0	0	0	0	0	0	0	0	0	0	0	0	0
535d	82	4	11	15	4	1	5	12	0	5	0	5	27	42
561	83	0	3	3	2	1	5	1	0	0	0	0	9	12
k1b	84	3	0	3	2	0	0	2	0	0	0	0	4	7
k1a	85	10	0	10	2	0	11	7	5	0	0	5	25	35
k1c	86	2	1	3	1	0	1	1	0	1	0	1	4	7
k1l	87	1	0	1	0	0	0	0	0	0	0	0	0	1
k1i	88	0	0	0	1	0	0	0	0	0	0	0	1	1
k1d	89	0	0	0	2	0	0	0	0	0	0	0	2	2
k1h	90	5	1	6	0	0	0	1	0	0	0	0	1	7
k1g	91	9	1	10	5	0	3	4	0	1	0	1	13	23
k1e	92	10	0	10	8	0	0	2	0	0	0	0	10	20
k1f	93	32	0	32	16	0	1	3	0	0	0	0	20	52
Pop Est		1768539	571130	2339670	1311715	706286	465077	572892	28420	141209	2837	172467	3228438	5568108
SOUTHEAST														
586	65	6	7	13	2	1	0	8	0	0	0	0	11	24
585x	66	0	0	0	3	0	1	0	0	0	0	0	4	4
618a	67	0	7	7	0	0	0	8	0	0	0	0	8	15
thn	94	2	8	10	4	4	17	63	6	3	0	9	98	108
thm	95	11	2	13	21	1	8	30	1	1	0	2	62	75
thl	96	2	32	34	1	0	11	67	7	12	1	20	99	133
thj	97	2	3	5	5	4	16	185	79	2	0	81	291	296
thk	98	12	0	12	2	26	51	141	10	0	0	10	230	242
thh	99	34	1	35	18	0	3	24	15	0	0	15	60	95
thd	100	1	51	52	3	1	3	9	1	13	3	17	33	85
thf	101	3	0	3	0	0	0	1	0	0	0	0	1	4
thi	102	9	0	9	6	0	0	0	0	0	0	0	6	15
tha	103	1	0	1	0	0	0	0	0	0	0	0	0	1
614	132	0	2	2	0	0	2	5	2	2	0	4	11	13
thc	133	1	4	5	0	0	4	17	2	20	0	22	43	48
thg	134	17	95	112	14	0	2	28	4	8	0	12	56	168
615	135	3	0	3	3	0	1	8	2	0	0	2	14	17
651	136	0	0	0	0	0	0	0	0	0	0	0	0	0
688	137	0	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		112692	222890	335582	88247	28663	87918	474048	108208	54865	4252	167324	846201	1181783
SOUTHWEST														
684b	104	4	0	4	0	0	0	0	0	0	0	0	0	4
646b	105	0	0	0	1	0	0	0	0	1	0	1	2	2

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Sta tion	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
646d	106	1	0	1	0	0	0	0	0	0	0	0	0	1
646c	107	0	0	0	1	0	0	0	1	1	0	2	3	3
646a	108	3	0	3	1	0	0	1	0	0	0	0	2	5
645b	109	1	0	1	0	0	0	0	0	0	0	0	0	1
682b	110	0	0	0	0	0	0	0	0	0	0	0	0	0
683a	111	0	0	0	0	0	0	0	0	0	0	0	0	0
683b	112	1	0	1	0	0	0	0	0	0	0	0	0	1
683d	113	0	0	0	0	0	0	0	0	0	0	0	0	0
684c	114	0	0	0	0	0	0	0	0	0	0	0	0	0
684a	115	0	0	0	0	0	0	0	0	0	0	0	0	0
alb	116	0	0	0	0	0	0	0	0	0	0	0	0	0
ald	117	2	1	3	4	0	0	0	2	0	0	2	6	9
alc	118	98	106	204	56	6	3	76	13	6	3	22	163	367
ala	119	28	4	32	21	3	2	11	1	0	0	1	38	70
alg	120	18	14	32	7	0	1	2	2	0	0	2	12	44
alj	121	33	0	33	30	5	4	2	2	1	0	3	44	77
alk	122	4	0	4	4	1	0	0	2	0	0	2	7	11
alm	123	4	0	4	2	0	0	0	0	0	0	0	2	6
alf	124	3	4	7	5	0	0	0	6	0	0	6	11	18
alh	125	20	6	26	25	1	3	28	14	3	1	18	75	101
ali	126	78	74	152	34	45	24	59	22	18	1	41	203	355
all	127	27	1	28	12	32	38	27	8	8	0	16	124	152
alo	128	10	3	13	11	7	10	13	20	0	1	21	63	76
alr	129	3	5	8	3	0	4	13	26	0	1	27	47	55
alq	130	14	0	14	6	9	11	25	65	0	4	69	120	134
alp	131	13	1	14	9	9	6	7	13	0	1	14	45	59
Pop Est		205702	120561	326263	131884	70630	60597	145516	129013	23087	7429	159529	568156	894418
WESTSIDE														
KUD	338	0	0	0	0	0	0	0	0	0	0	0	0	0
KUF	339	6	0	6	2	0	2	12	12	0	0	12	28	34
KUJ	340	27	13	40	14	44	22	15	13	6	0	19	114	154
KUYX	341	0	0	0	0	0	0	0	0	0	0	0	0	0
KUY	342	0	0	0	0	0	2	0	0	0	0	0	2	2
KUL	343	0	2	2	2	0	0	0	1	0	0	1	3	5
KULX	344	70	6	76	26	74	22	6	2	2	0	4	132	208
KUK	345	33	27	60	18	50	16	8	4	3	0	7	99	159
KUE	346	0	2	2	0	0	2	0	0	0	0	0	2	3
KUG	347	0	1	1	0	0	0	0	0	0	0	0	0	1
KUI	348	138	360	498	67	64	63	34	5	8	0	13	241	739
KUM	349	9	7	16	4	4	2	1	0	0	0	0	12	28

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Sta tion	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
KUN	350	0	10	10	4	2	2	2	0	0	0	0	10	20
KUO	351	13	20	33	16	2	4	3	2	1	0	3	28	61
KUP	352	0	16	16	5	1	2	12	0	13	0	13	33	49
KUQ	353	7	16	23	5	5	2	3	0	6	0	6	21	44
KUS	354	5	19	24	3	7	6	3	0	4	0	4	23	47
KUT	355	8	31	39	7	3	5	5	0	0	0	0	20	59
KUU	356	37	5	42	26	4	1	0	0	0	0	0	31	73
KUX	357	7	3	10	8	14	2	1	2	0	0	0	25	35
KUXX	358	2	12	14	2	16	2	0	2	0	0	2	22	36
KUW	359	2	0	2	0	0	2	7	6	0	0	6	15	17
KUV	360	14	1	16	7	0	0	0	0	0	0	0	7	23
PAA	389	9	42	51	0	1	5	25	1	16	0	17	49	100
MAA	390	1	5	6	5	0	7	19	10	1	0	11	42	48
RAA	391	4	1	5	7	0	3	6	5	4	0	9	25	30
UYBX	392	0	0	0	2	0	0	0	0	0	0	0	2	2
UYEX	393	0	7	7	0	0	1	5	0	0	0	0	6	13
UYKX	394	4	5	9	11	0	0	0	0	0	0	0	11	20
UYMX	395	6	5	11	7	0	0	1	2	0	0	2	10	21
UYQX	396	3	0	3	0	0	0	0	1	0	0	1	1	4
UYS	397	3	0	3	0	0	0	0	0	0	0	0	0	3
UYO	398	5	0	5	0	0	0	0	0	0	0	0	0	5
UYFX	399	2	4	7	4	1	4	6	0	6	0	6	21	28
UYHX	400	5	0	5	5	0	0	2	0	0	0	0	7	12
Pop Est	159998	248767	408765	108531	113242	74755	90262	31733	42415	0	74149	460939	869704	
NORTH MAINLAND														
224	361	140	5	145	97	28	7	5	1	0	0	1	138	283
223	362	119	7	126	75	8	1	1	0	0	0	0	85	211
222	363	0	0	0	0	1	0	0	0	0	0	0	1	1
172	364	1	3	4	3	0	0	0	5	0	5	10	13	17
198	365	130	19	149	84	4	2	6	4	1	1	6	102	251
199	366	49	2	51	34	0	3	5	5	0	1	6	48	99
200	367	90	12	102	66	68	20	11	2	2	0	4	169	271
174	368	60	11	71	50	1	3	3	2	2	0	4	61	132
147	369	22	14	36	16	8	2	6	0	1	0	1	33	69
146	370	23	12	35	10	3	0	4	0	1	1	2	19	54
171	371	1	0	1	0	0	0	0	0	0	0	0	0	1
171X	372	0	55	55	1	0	2	25	49	1	27	77	105	160
171Y	373	18	22	40	21	3	0	11	6	4	5	15	50	90
173	374	0	0	0	0	0	0	0	0	0	0	0	0	0
145	375	3	1	4	3	0	0	0	0	0	0	0	3	7

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Station	Tow #	Females			Sublegal Males				Recruit		Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114	<165	>164					
117	376	17	18	35	15	0	0	4	0	1	0	1	20	55	
118	377	23	10	33	33	0	3	23	7	15	3	25	84	117	
119	378	10	0	10	9	0	0	2	2	2	0	4	15	25	
144	379	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	380	2	1	3	7	0	0	2	0	0	0	0	9	12	
91	381	9	5	14	7	0	0	2	0	0	0	0	9	23	
60	382	3	0	3	13	0	0	0	0	0	0	0	0	13	16
61	383	6	0	6	7	0	1	3	0	0	0	0	11	17	
31	384	1	0	1	3	0	0	0	0	0	0	0	3	4	
2	385	1	0	1	0	0	0	0	0	0	0	0	0	1	
3	386	7	0	7	0	0	0	5	3	0	0	3	8	15	
121	387	47	1	48	35	8	12	1	0	2	0	2	58	106	
120	388	25	5	30	11	13	7	5	0	2	0	2	38	68	
Pop Est		3023459	536322	3559781	2228789	544325	232786	360218	143776	116170	58652	318598	3684716	7244497	
Total		5876645	2926680	8803325	4497063	1634055	1176978	2098307	543740	475828	75571	1095139	10501543	19304868	

Appendix F. Numbers of king crab per 1.85 km (1 nautical mile) in 1994 in the Kodiak Management Area with population index by district.

Station	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv	Adult	Total	Four	Three	Two	One					
NORTHEAST													
kzc	1	0	0	0	0	0	0	0	0	0	0	0	0
kzb	2	1	0	1	0	0	1	0	0	0	0	1	3
kza	3	0	2	2	0	1	1	0	0	0	0	2	4
kzd	4	0	0	0	0	0	0	0	0	0	0	0	0
kze	5	0	0	0	0	0	0	0	0	0	0	0	0
kzf	6	0	0	0	0	0	0	0	0	0	0	0	0
kzg	7	0	0	0	0	0	0	0	0	0	0	0	0
kzj	8	0	0	0	0	0	0	0	0	0	0	0	0
kzk	9	0	0	0	0	0	0	0	0	0	0	0	0
moex	10	0	0	0	0	0	0	0	0	0	0	0	0
mogx	11	0	0	0	0	0	0	0	0	0	0	0	0
molx	12	0	0	0	0	0	0	0	0	0	0	0	0
mopx	13	0	0	0	0	0	0	0	0	0	0	0	0
moxx	14	0	0	0	0	0	0	0	0	0	0	0	0
255	15	0	0	0	0	0	0	0	0	0	0	0	0
256	16	0	0	0	0	0	0	0	0	0	0	0	0
257	17	0	0	0	0	0	0	0	0	0	0	0	0
284	18	0	0	0	0	0	0	0	0	0	0	0	0
283	19	0	0	0	0	0	0	0	0	0	0	0	0
kzs	20	0	0	0	0	0	0	0	0	0	0	0	0
kzr	21	0	0	0	0	0	0	0	0	0	0	0	0
monx	22	0	0	0	0	0	0	0	0	0	0	0	0
kzo	23	0	0	0	0	0	0	0	0	0	0	0	0
369x	24	0	0	0	0	0	0	0	0	0	0	0	0
395	25	0	0	0	0	0	0	0	0	0	0	0	0
420	26	0	0	0	0	0	0	0	0	0	0	0	0
421	27	0	0	0	0	0	0	0	0	0	0	0	0
444	28	0	0	0	0	0	0	0	0	0	0	0	0
443	29	0	0	0	0	0	0	0	0	0	0	0	0
442	30	0	0	0	0	0	0	0	0	0	0	0	0
chj	31	0	7	7	0	0	1	6	0	9	9	16	22
chk	32	0	0	0	0	0	0	0	0	3	3	3	3
chg	33	0	0	0	0	0	0	0	0	0	0	0	0
chl	34	0	0	0	0	0	0	0	0	0	0	0	0
chf	35	0	0	0	0	0	0	0	0	0	0	0	0
che	36	0	0	0	2	0	0	0	0	0	0	2	2
chb	37	0	3	3	0	0	0	1	1	3	4	5	8
cha	38	0	1	1	0	0	0	0	0	0	0	0	1
cha	39	0	0	0	0	0	0	0	0	0	0	0	0
chb	40	0	0	0	0	0	0	0	0	0	0	0	0
chj	41	0	1	1	0	0	0	2	1	3	4	7	8
ugf	42	0	0	0	0	0	0	0	0	0	0	0	0
ugg	43	0	0	0	0	0	0	0	0	0	0	0	0
ujg	44	0	0	0	0	0	0	0	0	0	0	0	0
486b	45	0	0	0	0	0	0	0	0	0	0	0	0
486a	46	0	0	0	0	0	0	0	0	0	0	0	0
510b	47	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (page 2 of 5)

Station	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv	Adult	Total	Four	Three	Two	One					
ugm	48	0	0	0	0	0	0	0	0	0	0	0	0
ugi	49	0	0	0	0	0	0	0	0	0	0	0	0
ugac	50	0	0	0	0	0	0	0	0	0	0	0	0
ugab	51	0	0	0	0	0	0	0	0	1	1	1	1
ugaa	52	0	0	0	0	0	0	0	1	0	1	1	1
ugb	53	0	0	0	0	0	0	0	0	0	0	0	0
UGC	54	0	0	0	0	0	0	0	0	0	0	0	0
ugd	55	0	0	0	0	0	0	0	0	0	0	0	0
uge	56	0	0	0	0	0	0	0	0	0	0	0	0
510c	57	0	0	0	0	0	0	0	0	0	0	0	0
534b	58	0	0	0	0	0	0	0	0	0	0	0	0
511a	59	0	0	0	0	0	0	0	0	0	0	0	0
511b	60	0	0	0	0	0	0	0	0	0	0	0	0
535b	61	0	0	0	0	0	0	0	0	0	0	0	0
535a	62	0	0	0	0	0	0	0	0	0	0	0	0
533a	63	0	0	0	0	0	0	0	0	0	0	0	0
559	64	0	0	0	0	0	0	0	0	0	0	0	0
654	68	0	0	0	0	0	0	0	0	0	0	0	0
619	69	0	0	0	0	0	0	0	0	0	0	0	0
587	70	0	0	0	0	0	0	0	0	0	0	0	0
560	71	0	0	0	0	0	0	0	0	0	0	0	0
588	72	0	0	0	0	0	0	0	0	0	0	0	0
620	73	0	0	0	0	0	0	0	0	0	0	0	0
655	74	0	0	0	0	0	0	0	0	0	0	0	0
695	75	0	0	0	0	0	0	0	0	0	0	0	0
696	76	0	0	0	0	0	0	0	0	0	0	0	0
656	77	0	0	0	0	0	0	0	0	0	0	0	0
621	78	0	0	0	0	0	0	0	0	0	0	0	0
533b	79	0	0	0	0	0	0	0	0	0	0	0	0
534a	80	0	0	0	0	0	0	0	0	0	0	0	0
535c	81	0	0	0	0	0	0	0	0	0	0	0	0
535d	82	0	0	0	0	0	0	0	0	0	0	0	0
561	83	0	0	0	0	0	0	0	0	0	0	0	0
k1b	84	0	0	0	0	0	0	0	0	0	0	0	0
k1a	85	0	0	0	0	0	0	1	0	0	0	1	1
k1c	86	0	0	0	0	0	0	10	0	0	0	10	0
k1l	87	0	0	0	0	0	0	0	0	0	0	0	0
k1i	88	0	0	0	0	0	0	0	0	0	0	0	0
k1d	89	0	0	0	0	0	0	0	0	0	0	0	0
k1h	90	0	0	0	0	0	0	0	0	0	0	0	0
k1g	91	0	0	0	0	0	0	0	0	0	0	0	0
k1e	92	0	0	0	0	0	0	0	0	0	0	0	0
k1f	93	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		174	7822	7996	1519	516	2494	6318	1762	11525	13287	24135	32131
SOUTHEAST													
586	65	0	0	0	0	0	0	0	0	0	0	0	0
585x	66	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (page 3 of 5)

Sta tion	Tow #	Females			Sublegal				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv	Adult	Total	Four	Three	Two	One					
618a	67	0	0	0	0	0	0	0	0	0	0	0	0
thn	94	0	0	0	0	0	0	0	0	0	0	0	0
thm	95	0	0	0	0	0	0	0	0	0	0	0	0
thl	96	0	0	0	0	0	0	0	0	0	0	0	0
thj	97	0	0	0	0	0	0	0	0	0	0	0	0
thk	98	0	0	0	0	0	0	0	0	0	0	0	0
thh	99	0	0	0	0	0	0	0	0	0	0	0	0
thd	100	0	0	0	0	0	0	0	0	0	0	0	0
thf	101	0	0	0	0	0	0	0	0	0	0	0	0
thi	102	0	0	0	0	0	0	0	0	0	0	0	0
tha	103	0	1	1	0	0	0	0	0	4	4	4	5
614	132	0	0	0	0	0	0	0	0	0	0	0	0
thc	133	0	0	0	0	0	0	0	0	0	0	0	0
thg	134	0	0	0	0	0	0	0	0	0	0	0	0
615	135	0	0	0	0	0	0	0	0	0	0	0	0
651	136	0	0	0	0	0	0	0	0	0	0	0	0
688	137	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	668	668	0	0	0	0	0	2673	2673	2673	3342
SOUTHWEST													
684b	104	0	0	0	0	0	0	0	0	0	0	0	0
646b	105	0	0	0	0	0	0	0	0	0	0	0	0
646d	106	0	0	0	0	0	0	0	0	0	0	0	0
646c	107	0	0	0	0	0	0	0	0	0	0	0	0
646a	108	0	0	0	0	0	0	0	0	0	0	0	0
645b	109	0	0	0	0	0	0	0	0	0	0	0	0
682b	110	0	0	0	0	0	0	0	0	0	0	0	0
683a	111	0	0	0	0	0	0	0	0	0	0	0	0
683b	112	0	0	0	0	0	0	0	0	0	0	0	0
683d	113	0	0	0	0	0	0	0	0	0	0	0	0
684c	114	0	0	0	0	0	0	0	0	0	0	0	0
684a	115	0	0	0	0	0	0	0	0	0	0	0	0
alb	116	0	0	0	0	0	0	0	0	0	0	0	0
ald	117	0	0	0	0	0	0	0	0	0	0	0	0
alc	118	0	18	18	0	1	3	1	1	3	4	9	27
ala	119	0	0	0	1	0	0	0	0	0	0	1	1
alg	120	0	1	1	1	0	1	1	0	1	1	4	5
alj	121	0	1	1	0	0	0	0	0	2	2	2	3
alk	122	0	5	5	0	0	0	0	0	0	0	0	5
alm	123	0	0	0	0	0	0	0	0	0	0	0	0
alf	124	0	1	1	0	0	0	1	2	1	3	4	5
alh	125	0	0	0	0	0	0	0	0	0	0	0	0
ali	126	0	0	0	0	0	0	0	0	0	0	0	0
all	127	0	0	0	0	0	0	0	0	0	0	0	0
alo	128	0	0	0	0	0	0	0	0	0	0	0	0
alr	129	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (page 4 of 5)

Station	Tow #	Juv	Females			Sublegal			Males			Recruit	Post recruit	Total Legal	Total Male	Total Crab
			Adult	Total	Four	Three	Two	One	Four	Three	Two					
alq	130	0	0	0	0	0	0	0	2	0	2	2	0	2	2	2
alp	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	11181	11181	1018	360	1961	2190	3854	4247	8101	13630		24811		
SHELIKOF																
KUD	338	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUF	339	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUJ	340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUYX	341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUY	342	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUL	343	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KULX	344	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUK	345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUE	346	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUG	347	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUI	348	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUM	349	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUN	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUO	351	5	0	5	2	0	1	0	0	0	0	0	0	0	3	8
KUP	352	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUQ	353	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUS	354	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUT	355	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUU	356	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KUX	357	17	0	17	14	4	0	0	0	0	2	2	20	37		
KUXX	358	2	0	2	2	0	0	0	0	0	0	0	0	2	4	
KUW	359	1	1	2	0	0	0	0	0	0	0	0	0	0	2	
KUV	360	44	0	44	34	0	0	0	0	0	0	0	0	34	79	
224	361	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
223	362	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
222	363	0	3	3	0	0	0	0	0	0	0	0	0	0	3	
172	364	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
198	365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
199	366	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200	367	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174	368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	369	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	370	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171	371	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171X	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171Y	373	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
173	374	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	375	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	377	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	378	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144	379	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	380	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (page 5 of 5)

Sta tion	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv	Adult	Total	Four	Three	Two	One					
91	381	0	0	0	0	0	0	0	0	0	0	0	0
60	382	0	0	0	0	0	0	0	0	0	0	0	0
61	383	0	0	0	0	0	0	0	0	0	0	0	0
31	384	0	0	0	0	0	0	0	0	0	0	0	0
2	385	0	0	0	0	0	0	0	0	0	0	0	0
3	386	0	0	0	0	0	0	0	0	0	0	0	0
121	387	0	0	0	0	0	0	0	0	0	0	0	0
120	388	0	0	0	0	0	0	0	0	0	0	0	0
PAA	389	0	0	0	0	0	0	0	0	0	0	0	0
MAA	390	0	0	0	0	0	0	0	0	0	0	0	0
RAA	391	0	0	0	0	0	0	0	0	0	0	0	0
UYBX	392	0	0	0	0	0	0	0	0	0	0	0	0
UYEX	393	0	0	0	0	0	0	0	0	0	0	0	0
UYKX	394	0	0	0	0	0	0	0	0	0	0	0	0
UYMX	395	0	0	0	0	0	0	0	0	0	0	0	0
UYQX	396	0	0	0	0	0	0	0	0	0	0	0	0
UYS	397	0	0	0	0	0	0	0	0	0	0	0	0
UYO	398	0	0	0	0	0	0	0	0	0	0	0	0
UYFX	399	0	0	0	0	0	0	0	0	0	0	0	0
UYHX	400	2	0	2	0	0	0	0	0	0	0	0	2
Pop Est		13993	15267	29261	9977	723	352	0	0	362	362	11414	40675
Grand Total		14167	34939	49106	12514	1600	4808	8509	5615	18808	24423	51853	100959

Appendix G.1 Arrowtooth lengths (cm) by area from a trawl survey of the Kodiak area.

Length (cm)	Area Group																				(Total)
	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	19	20				
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
11	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
12	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
13	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	
14	0	0	0	0	3	1	0	0	1	0	0	0	0	0	0	3	0	0	0	8	
15	1	0	0	0	1	0	1	0	1	0	0	0	0	0	5	0	0	0	0	9	
16	0	0	0	0	0	3	0	2	1	0	1	0	0	0	6	1	0	0	14		
17	1	0	0	0	1	0	2	0	0	0	0	0	0	0	4	0	0	0	0	8	
18	0	1	0	4	0	1	0	0	0	0	2	0	0	0	1	0	0	0	0	9	
19	2	0	0	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
20	1	0	1	10	0	0	0	0	0	2	0	0	0	0	0	1	2	0	0	15	
21	1	0	3	19	2	0	0	0	0	1	1	2	0	0	0	1	2	0	0	32	
22	0	1	2	11	5	2	0	0	0	2	1	0	0	2	0	3	3	0	0	32	
23	2	2	3	16	5	0	0	4	5	3	0	0	1	0	4	1	0	0	46		
24	5	0	0	16	6	3	0	6	5	1	6	0	2	0	4	1	1	1	56		
25	5	0	1	11	3	7	1	3	4	6	2	1	5	0	10	1	2	2	62		
26	6	4	1	12	6	10	0	5	2	4	5	2	2	0	4	0	1	1	64		
27	8	1	2	20	1	4	0	2	5	1	5	2	2	1	9	0	3	3	66		
28	8	1	3	23	7	2	0	2	5	3	1	4	1	0	3	0	4	4	67		
29	2	0	4	14	8	2	0	6	4	3	5	0	2	0	3	1	2	2	56		
30	9	4	6	23	11	5	0	5	2	7	6	1	5	0	2	4	8	98			
31	10	0	1	21	10	5	0	2	5	4	3	5	7	1	6	3	2	2	85		
32	13	0	3	27	8	10	1	1	1	3	2	4	2	1	2	1	2	2	81		
33	18	3	2	26	7	4	0	4	2	6	4	2	5	0	2	2	2	4	91		
34	12	0	1	22	8	2	0	2	0	4	3	4	4	0	3	1	1	1	67		
35	10	0	4	24	7	5	1	3	0	4	2	2	0	4	1	1	2	69			
36	15	0	6	29	7	2	0	3	0	5	1	3	3	0	0	1	0	1	75		
37	8	0	2	23	6	1	0	2	1	4	2	2	1	0	1	2	2	2	57		
38	13	0	0	19	7	4	0	3	1	4	4	1	2	0	0	0	1	1	59		
39	20	1	2	26	6	1	0	1	0	1	3	0	3	0	0	1	4	69			
40	19	1	6	31	8	5	0	2	2	3	3	0	6	2	2	5	2	2	97		
41	22	2	2	14	5	3	0	5	0	2	2	2	1	10	0	1	3	2	74		
42	8	1	7	18	1	1	0	2	0	2	2	2	8	1	0	2	4	58			
43	14	1	1	18	3	1	0	4	2	2	5	2	6	0	2	2	0	63			
44	22	1	7	15	7	3	0	2	1	3	4	2	5	0	1	1	4	78			
45	14	2	5	18	5	0	0	2	5	3	4	4	4	0	1	2	4	73			
46	15	1	3	9	7	2	1	0	0	4	0	1	6	0	1	4	3	57			
47	8	2	1	14	3	2	0	0	1	3	1	2	4	1	2	2	3	49			
48	18	3	2	16	3	1	1	0	3	0	3	7	5	0	2	2	1	67			
49	12	2	3	9	3	5	0	1	2	1	1	1	3	0	1	3	1	48			
50	12	2	3	12	3	3	1	2	0	1	1	0	1	1	1	1	1	44			

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Appendix G.1. (page 2 of 2).

Length (cm)	Area Group																				(Total)
	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	19	20				
51	5	4	2	11	4	0	1	1	0	1	3	0	4	1	0	1	2	40			
52	8	1	0	16	2	0	0	1	0	0	3	1	0	0	0	6	2	40			
53	8	1	1	7	0	1	0	2	1	2	3	3	2	0	1	0	0	32			
54	8	3	2	11	4	1	0	2	0	0	1	2	2	1	0	1	2	40			
55	6	3	1	8	1	3	2	1	1	0	1	0	1	0	0	1	1	30			
56	10	7	2	8	2	1	0	0	2	2	0	2	2	0	1	2	0	41			
57	6	2	3	6	5	3	0	2	0	1	2	1	1	0	1	3	1	37			
58	6	2	2	5	7	1	0	1	1	0	3	2	1	1	1	3	0	36			
59	12	3	2	8	4	0	1	1	2	1	0	3	5	0	1	3	0	46			
60	3	1	2	3	2	0	2	0	2	1	1	1	2	1	2	3	1	27			
61	6	3	3	7	3	1	0	0	0	0	1	1	3	0	1	1	1	31			
62	6	2	1	1	2	1	0	0	1	2	2	0	1	0	2	4	1	26			
63	5	0	2	8	1	1	0	1	0	1	0	1	2	0	0	0	0	22			
64	3	2	1	3	0	0	1	0	0	0	0	0	1	1	1	2	1	16			
65	5	2	0	6	2	0	0	0	1	2	1	1	2	0	1	2	0	25			
66	3	1	1	3	2	0	0	0	0	1	0	1	3	0	1	3	3	22			
67	3	2	0	4	2	2	0	0	1	1	0	3	2	0	0	1	1	22			
68	3	1	2	1	0	1	0	0	0	3	1	1	1	1	0	2	0	17			
69	3	1	0	1	2	2	0	0	0	1	0	1	0	0	1	2	1	15			
70	1	0	0	3	1	0	1	0	2	0	1	0	0	0	0	0	1	10			
71	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	5			
72	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	4			
73	1	0	0	4	0	0	1	0	2	0	1	0	1	0	0	0	0	10			
74	1	0	0	1	0	0	0	0	1	0	0	1	1	0	0	0	1	6			
75	1	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	5			
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1			
77	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1			
78	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2			
79	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1			
83	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
84	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			

1	449	80	114	719	216	121	15	90	79	107	114	81	146	17	112	94	84	2638				
1	Shelikof										11	Chiniak Bay										
2	Marmot Offshore										12	Kiliuda Bay										
3	Chiniak Offshore										13	Kupreanof-Viekoda										
4	Barnabas										14	Uganik Bay										
5	Twoheaded										15	Inner Marmot Bay										
6	Alitak Flats										16	Malina-Raspberry										
7	Geese Islands										17	Ugak Bay										
10	Alitak Bay										19	Marmot-Izhut Bay										
11	Chiniak Bay										20	Uyak Bay										

Appendix G.2 Halibut lengths (cm) by area from a trawl survey of the Kodiak area

Length (cm)	Area Group																				(Totals)
	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	19	20				
19	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
26	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
27	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
28	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	3
29	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
30	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
31	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
32	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	4
33	1	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	4
34	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	4
36	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
37	1	0	0	0	2	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	8
38	0	0	0	2	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	7
39	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	1	0	0	0	0	6
40	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	4
41	2	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	5
42	3	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	2	0	0	11
43	1	0	0	0	0	0	1	0	0	0	3	0	1	1	0	0	0	0	0	0	7
44	1	0	0	0	1	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0	6
45	1	0	0	0	1	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	7
46	1	0	0	0	1	0	1	0	0	0	0	2	1	0	0	1	0	0	0	0	7
47	4	0	0	0	1	1	0	0	1	0	0	1	3	0	0	0	1	0	0	0	12
48	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	1	0	0	0	9
49	0	0	0	0	1	1	0	0	0	1	0	4	2	0	0	0	1	0	0	0	10
50	0	0	0	0	3	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	7
51	2	0	0	0	0	1	0	0	1	1	0	4	2	0	0	0	3	0	0	0	14
52	2	0	0	0	1	1	0	0	0	0	0	3	0	2	0	0	0	0	0	0	9
53	1	0	0	0	1	0	1	0	0	1	1	4	2	0	0	0	3	0	0	0	14
54	1	0	0	0	1	0	2	0	0	1	1	0	2	2	0	0	1	1	0	0	12
55	3	0	1	0	5	3	0	0	0	0	3	1	0	0	1	1	0	0	0	0	18
56	3	0	0	1	1	1	0	0	1	0	2	0	0	1	0	0	0	0	0	0	10
57	2	0	0	0	1	3	3	0	0	1	0	0	1	1	0	0	0	0	0	1	13
58	5	2	1	1	1	0	0	0	0	0	1	2	1	0	0	4	0	0	0	0	18
59	0	0	0	0	2	1	0	1	2	1	0	1	0	0	0	0	0	0	0	0	8
60	1	0	2	0	0	1	1	0	2	1	2	0	1	0	0	2	0	0	0	0	13
61	2	0	2	0	1	5	0	1	1	3	1	0	1	0	0	4	0	1	0	0	22
62	4	1	0	2	2	3	0	2	5	0	1	0	0	0	2	1	1	0	0	0	24
63	3	0	1	2	2	9	0	0	2	0	1	2	1	0	0	6	1	2	0	0	32
64	2	1	1	3	1	7	0	2	3	0	1	1	0	0	0	3	0	0	0	0	25
65	2	1	0	0	1	3	7	0	0	1	0	0	1	3	0	0	5	0	0	0	15
66	2	2	0	0	1	7	0	0	1	0	0	0	1	3	0	0	5	0	0	0	22

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Appendix G.2. (page 2 of 3)

Length (cm)	Area Group																			(Totals)
	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	19	20			
67	0	0	1	0	1	2	0	0	2	2	0	2	1	2	7	0	0	20		
68	6	0	2	4	1	4	0	0	2	3	1	1	0	0	1	0	0	25		
69	4	0	0	4	1	9	0	2	1	1	1	1	2	0	0	0	1	0	27	
70	3	0	0	0	1	14	0	1	0	0	0	0	0	2	1	0	1	23		
71	1	1	1	1	2	4	0	1	1	0	1	0	2	0	0	1	0	1	17	
72	1	0	1	5	2	11	0	0	1	1	1	0	0	0	2	2	1	28		
73	3	2	0	1	2	13	0	1	3	0	1	1	1	0	6	0	0	34		
74	5	2	0	4	1	9	0	2	3	0	2	0	0	0	4	1	1	34		
75	6	1	1	0	2	14	0	0	0	1	0	0	1	1	2	1	0	30		
76	2	1	0	3	2	17	0	0	1	0	1	2	0	0	3	0	1	31		
77	1	2	2	1	3	13	0	0	3	0	1	2	0	1	2	0	1	32		
78	3	0	0	7	0	10	0	0	4	0	1	0	0	0	1	0	1	27		
79	6	1	0	2	0	13	0	0	1	0	0	1	0	0	0	0	0	24		
80	3	2	3	1	3	14	0	1	3	0	0	0	2	1	1	0	0	34		
81	1	4	0	0	1	9	0	1	4	0	1	0	0	0	0	0	0	21		
82	2	2	1	2	0	9	0	2	1	0	0	1	1	0	3	1	1	26		
83	1	4	3	3	2	13	0	0	3	0	0	2	1	1	0	0	0	34		
84	0	3	2	4	4	5	0	1	2	0	1	1	0	0	1	0	0	24		
85	1	2	0	4	0	7	0	2	4	0	0	0	0	3	1	0	1	25		
86	2	3	1	12	1	9	0	0	0	0	0	0	0	0	2	1	0	31		
87	1	0	1	2	1	3	0	1	0	0	0	1	0	0	1	0	0	11		
88	1	1	0	3	1	5	0	0	2	0	0	0	0	1	0	0	1	15		
89	0	0	2	0	1	4	0	0	4	0	0	0	1	1	0	0	0	13		
90	3	0	2	3	1	6	0	2	1	0	0	0	0	0	0	0	1	19		
91	0	0	3	1	1	4	0	0	3	0	0	1	0	1	2	0	0	16		
92	0	3	1	0	1	4	0	0	3	0	1	0	0	1	0	0	3	17		
93	0	1	1	2	0	7	0	0	2	0	0	0	0	1	0	1	0	15		
94	0	1	2	1	1	4	0	0	1	0	0	1	0	0	2	0	1	14		
95	1	2	0	2	2	3	0	0	2	0	0	0	0	1	1	1	0	15		
96	4	2	0	0	1	4	0	0	0	0	0	0	0	0	0	1	0	12		
97	0	0	1	1	1	4	0	0	0	0	1	1	0	0	0	0	1	10		
98	2	1	0	1	0	5	0	1	0	0	1	1	0	0	0	0	0	12		
99	0	0	1	2	0	4	0	1	0	0	1	0	0	0	0	2	1	12		
100	0	0	0	0	0	4	0	1	1	0	0	0	0	0	2	1	0	9		
101	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2		
102	2	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	1	1	7	
103	1	1	0	0	0	0	2	1	1	0	2	2	0	0	0	0	0	12		
104	0	0	1	0	0	0	0	0	1	0	1	0	1	0	0	2	1	7		
105	1	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	3		
106	0	1	0	0	2	0	1	0	1	0	0	0	1	0	0	1	1	9		
107	0	0	0	1	0	1	0	0	2	0	0	0	0	1	0	1	0	6		
108	2	0	0	2	1	3	0	1	0	0	0	0	0	0	0	1	1	10		

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Appendix G.2. (page 3 of 3)

Length (cm)	Area Group																			
	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	19	20	(Totals)		
109	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	4	
110	0	0	0	1	0	1	0	1	2	0	0	0	1	0	0	0	0	0	6	
111	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	
112	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	
113	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	
114	0	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	6	
115	0	0	0	0	0	3	0	0	1	1	1	0	1	0	0	0	0	0	7	
117	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
118	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	
119	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	3	
120	1	0	0	0	0	1	0	1	1	0	0	1	1	0	1	1	1	1	9	
121	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	
122	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	
123	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	
124	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
125	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	4	
126	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
128	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
129	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
130	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	4	
131	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
134	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
138	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	4	
139	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
141	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
142	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
143	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
144	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
148	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
150	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
151	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
163	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2	
170	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	

1 Shelikof
2 Marmot Offshore
3 Chiniak Offshore
4 Barnabas
5 Twoheaded
6 Alitak Flats

7 Geese Islands
10 Alitak Bay
11 Chiniak Bay
14 Uganik Bay
15 Inner Marmot Bay
16 Malina-Raspberry

17 Ugak Bay
19 Marmot-Izhut Bay
20 Uyak Bay

Appendix G.3 Flathead lengths (cm) by area from a trawl survey of the Kodiak area, 1994.

Length (cm)	Area Group																		
	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	19	20	(Total)	
7	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3
8	1	0	0	1	2	0	0	0	0	0	1	0	6	0	1	0	3	15	
9	1	1	1	0	2	0	0	0	0	0	0	0	2	0	8	0	0	15	
10	4	1	0	3	0	1	0	0	2	0	4	1	1	0	3	1	1	22	
11	4	1	0	5	0	2	0	2	0	0	1	2	0	0	3	0	7	27	
12	11	2	0	4	2	2	0	0	0	0	1	1	4	0	2	3	8	40	
13	6	2	0	4	3	1	0	2	0	0	3	7	4	0	2	2	3	39	
14	7	0	1	14	3	7	0	2	2	5	8	9	0	7	0	6	72		
15	2	0	1	10	8	5	0	1	0	3	5	5	16	1	2	2	11	72	
16	2	2	1	19	9	18	0	2	2	0	3	7	5	0	3	1	12	86	
17	3	2	1	17	2	10	0	3	3	3	3	6	6	1	3	1	7	71	
18	3	3	0	13	8	12	0	3	3	1	4	3	5	0	10	1	6	75	
19	6	3	1	21	5	5	0	1	4	5	6	8	5	0	7	0	2	79	
20	7	4	2	14	3	3	1	2	0	0	5	5	5	0	6	0	4	61	
21	7	1	3	16	6	1	0	2	4	3	6	4	5	0	4	0	6	68	
22	5	3	2	13	18	7	1	4	2	2	8	6	8	0	5	3	4	91	
23	4	1	0	20	10	18	0	3	4	3	8	4	15	0	5	3	6	104	
24	7	4	0	14	16	21	0	7	1	5	12	3	15	0	5	2	5	117	
25	7	7	1	29	22	9	0	13	3	6	21	7	18	0	9	5	8	165	
26	10	5	0	23	18	11	0	27	3	5	15	9	30	1	8	7	16	188	
27	11	8	6	34	19	14	0	18	10	6	15	10	30	3	8	5	17	214	
28	9	8	4	16	29	14	0	23	12	3	27	18	40	4	7	4	41	259	
29	16	6	4	27	20	23	0	29	18	6	24	15	28	5	7	6	34	268	
30	19	2	4	30	22	16	0	40	16	12	13	26	44	2	11	7	28	292	
31	28	6	5	33	19	27	0	41	19	16	17	22	41	6	16	10	29	335	
32	47	5	4	43	12	18	0	29	20	13	23	21	27	9	16	9	26	322	
33	41	8	8	40	17	11	0	19	21	23	19	21	23	7	13	11	19	301	
34	27	8	4	33	15	11	0	22	12	18	16	34	19	7	16	16	23	281	
35	27	6	8	28	14	15	1	30	10	24	10	10	26	5	10	19	11	254	
36	50	10	8	25	5	19	0	21	4	14	11	14	16	8	11	21	9	246	
37	43	7	2	15	5	9	1	13	7	21	7	15	16	6	8	20	10	205	
38	27	4	5	14	12	4	1	14	4	19	7	12	17	3	13	13	6	175	
39	22	1	4	4	13	10	0	10	7	8	5	10	14	4	11	5	3	131	
40	13	1	2	5	2	2	1	4	0	10	2	6	4	2	15	7	6	82	
41	8	0	0	1	4	3	0	2	1	4	2	5	3	2	5	6	1	47	
42	4	1	2	1	4	0	0	2	0	2	0	1	1	0	10	1	0	29	
43	2	2	1	0	1	0	0	1	3	0	0	0	1	1	7	1	0	20	
44	2	0	0	0	1	1	0	1	1	0	0	0	0	0	4	0	0	10	
45	0	0	0	2	0	0	0	0	1	0	1	0	0	0	1	0	0	5	
46	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	
47	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3	
48	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
49	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	
50	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
	494	126	87	595	354	330	6	393	199	237	310	326	509	77	282	193	378	4896	

- 1 Shelikof
- 2 Marmot Offshore
- 3 Chiniak Offshore
- 4 Barnabas
- 5 Twoheaded
- 6 Alitak Flats
- 7 Geese Islands
- 10 Alitak Bay
- 11 Chiniak Bay
- 12 Kiliuda Bay
- 13 Kupreanof-Viekoda
- 14 Uganik Bay
- 15 Inner Marmot Bay
- 16 Malina-Raspberry
- 17 Ugak Bay
- 19 Marmot-Izhut Bay
- 20 Uyak Bay

Appendix G.4. English Sole lengths (cm) by area from a trawl survey of the Kodiak area.

Length (cm)	Area Group						(Totals)
	4	13	14	17	20		
21	0	0	0	1	0	1	
27	0	0	0	1	0	1	
29	0	0	1	0	0	1	
30	0	1	0	0	0	1	
31	0	0	1	0	0	1	
32	0	0	0	0	1	1	
34	0	1	0	0	0	1	
35	0	2	0	0	0	2	
39	1	0	1	0	0	2	
40	0	0	1	0	0	1	
41	1	0	0	0	1	2	
43	1	1	0	0	1	3	
45	0	1	0	0	0	1	
46	0	0	0	0	1	1	
47	0	0	0	0	3	3	
48	0	0	0	0	1	1	
49	1	0	0	0	1	2	
50	1	0	0	0	0	1	
51	0	0	0	0	3	3	
52	1	0	0	0	1	2	
53	2	0	0	0	0	2	
	8	6	4	2	13	33	
	4 Barnabas			14 Uganik Bay			20 Uyak Bay
	13 Kupreanof-Viekoda			17 Ugak Bay			

Appendix G.5. Yellowfin Sole lengths (cm) by area from a trawl survey of the Kodiak area.

Length (cm)	Area Group												(Totals)
	1	5	6	10	11	12	13	14	15	16	17	20	
11	0	0	0	0	0	0	1	0	0	0	0	0	1
12	0	0	0	0	0	0	1	0	0	0	0	0	1
14	0	0	0	0	0	0	1	0	0	0	0	0	1
16	0	0	0	0	0	0	2	0	0	0	0	0	2
17	0	0	0	0	1	0	0	0	0	0	0	0	1
18	0	0	0	0	1	0	0	0	0	0	0	0	1
19	0	0	0	1	0	0	1	0	0	0	0	0	2
21	0	0	0	1	1	0	1	1	0	0	0	0	4
22	0	0	0	0	0	0	2	0	0	0	3	0	5
23	0	0	0	1	0	0	2	1	1	0	3	0	8
24	0	1	1	1	2	0	0	1	0	0	3	0	9
25	0	0	0	1	1	0	6	2	2	0	3	0	15
26	0	0	0	2	0	0	2	4	3	0	4	0	15
27	0	1	1	6	0	0	4	2	6	0	9	0	29
28	0	1	1	10	0	0	6	5	4	0	9	0	36
29	0	0	0	12	4	0	11	3	4	0	7	0	41
30	0	2	1	11	7	0	20	9	7	0	6	1	64
31	0	3	1	10	7	2	16	8	3	0	5	0	55
32	0	1	0	19	7	0	15	6	8	0	2	1	59
33	0	3	1	11	7	2	15	2	6	0	2	0	49
34	0	1	0	9	5	0	6	0	3	0	4	1	29
35	0	3	1	4	6	2	4	1	1	0	0	1	23
36	0	5	1	3	5	2	3	1	0	1	0	0	21
37	0	1	0	0	5	4	4	1	1	1	1	0	18
38	0	1	1	3	4	2	2	0	0	0	4	0	17
39	0	0	0	2	1	3	1	0	0	0	0	0	7
40	0	2	1	0	0	1	1	1	0	0	1	0	7
41	1	4	1	0	0	0	0	0	0	0	1	0	7
42	0	0	1	1	0	1	0	0	0	0	0	0	3
43	0	1	0	0	0	0	0	0	0	2	0	0	3
44	0	1	0	0	0	0	0	0	0	1	0	0	2
	1	31	12	108	64	19	127	48	49	2	70	4	535

1 Shelikof	11 Chiniak Bay	15 Inner Marmot Bay
5 Twoheaded	12 Kiliuda Bay	16 Malina-Raspberry
6 Alitak Flats	13 Kupranof-Viekoda	17 Ugak Bay
10 Alitak Bay	14 Uganik Bay	20 Uyak Bay

Appendix G.6 Rex Sole lengths (cm) by area from a trawl survey of the Kodiak area, 1994.

Length (cm)	Area Group											(Totals)
	1	2	3	4	5	6	11	12	13	17	19	
14	1	0	0	0	0	0	0	0	0	0	0	1
15	1	0	0	0	0	0	0	0	0	0	0	1
18	0	0	0	1	0	0	0	0	0	0	0	1
19	1	0	0	0	0	0	0	0	0	0	0	1
20	0	0	0	0	0	0	0	0	0	1	0	1
23	0	0	0	0	0	0	0	0	0	1	0	1
28	0	0	0	1	0	0	0	0	0	0	0	1
30	1	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	2	0	0	0	0	0	0	0	2
33	0	0	1	0	0	0	0	0	0	0	0	1
34	1	0	0	1	0	0	0	0	0	0	0	2
35	0	1	0	0	0	0	0	0	0	0	0	1
36	0	1	0	1	0	0	0	0	0	0	0	2
37	1	0	0	1	0	0	0	0	0	0	0	2
38	0	2	0	1	0	0	0	1	0	0	0	4
39	0	0	1	0	0	0	0	1	0	0	0	2
40	0	1	2	2	0	0	0	0	1	0	0	6
41	0	1	0	0	0	0	0	0	0	0	0	1
42	0	2	0	4	0	0	0	0	0	0	0	6
43	0	0	0	3	0	0	0	0	1	0	0	4
44	0	1	1	1	0	1	0	0	0	0	0	4
45	0	2	2	3	0	1	0	0	0	0	1	9
46	0	0	2	1	0	0	0	0	0	0	0	3
47	0	1	1	1	0	0	0	0	0	0	0	3
48	0	0	1	4	0	0	0	0	0	0	0	5
49	0	0	2	1	1	0	1	0	0	1	0	6
50	0	0	2	4	0	0	0	0	0	0	0	6
52	0	0	1	1	0	0	0	0	0	0	0	2
53	0	0	0	0	1	0	0	0	0	0	0	1
54	0	0	0	1	0	0	0	0	0	0	0	1
56	0	0	1	0	0	0	0	0	0	0	0	1
	6	12	17	34	2	2	1	2	2	3	1	82
1 Shelikof	4 Barnabas						11 Chiniak Bay				17 Ugak Bay	
2 Marmot Offshore	5 Twoheaded						12 Kiliuda Bay				19 Marmot Izhut Bay	
3 Chiniak Offshore	6 Alitak Flats						13 Kupreanof-Viekoda					

Appendix G.7. Alaska Plaice lengths (cm) by area from a trawl survey of the Kodiak area, 1994.

Length (cm)	Area Group											(Totals)
	1	6	10	11	13	14	16	20	20	20	20	
22	0	0	0	2	0	0	0	0	0	0	0	2
23	0	0	0	1	0	0	0	0	0	0	0	1
29	0	0	0	1	0	0	0	0	0	0	0	1
30	0	0	1	0	0	0	0	0	0	0	0	1
32	0	0	1	0	0	0	0	0	0	0	0	1
33	0	0	0	1	1	1	0	0	0	0	0	2
34	0	0	1	0	0	0	0	0	0	0	0	1
35	0	0	1	0	0	0	0	0	0	0	0	1
36	0	0	0	0	1	0	0	0	0	0	0	1
37	0	1	0	0	0	0	1	0	0	0	0	2
38	0	0	1	0	0	0	1	0	0	0	0	2
39	0	0	0	0	0	0	0	0	0	1	0	1
40	0	0	0	0	1	0	0	0	0	0	0	1
41	0	0	0	0	0	0	1	0	0	0	0	1
42	0	0	0	1	1	2	0	0	0	0	0	4
43	0	0	0	0	0	0	0	1	0	0	0	1
45	0	0	0	0	0	0	0	0	0	1	0	1
46	2	0	0	0	0	0	0	0	0	0	0	2
47	0	0	0	0	0	0	0	0	0	1	0	1
48	0	0	1	0	0	1	0	0	0	0	0	2
49	0	0	0	0	1	0	0	0	0	0	0	1
51	1	0	0	0	0	1	0	0	0	0	0	2
52	0	0	0	1	0	0	0	0	0	0	0	1
53	1	1	1	0	0	0	0	0	0	0	0	3
54	0	0	0	0	0	0	1	0	0	0	0	1
58	0	0	0	0	0	1	0	0	0	0	0	1
	4	2	7	7	5	9	1	3		38		
1 Shelikof	10 Alitak Bay				13 Kupreanof-Viekoda			16 Malina-Raspberry				
6 Alitak Flats	11 Chiniak Bay				14 Uganik Bay			20 Uyak Bay				

Appendix G.8. Dover Sole lengths (cm) by area from a trawl survey of the Kodiak area, 1994.

Length (cm)	Area Group												(Totals)
	1	3	4	5	10	11	12	13	14	16	19	20	
≥35	4	0	0	1	1	0	0	3	2	0	0	0	11
36	0	0	0	0	1	0	0	0	0	0	0	1	2
37	0	0	0	0	1	0	0	0	0	0	0	0	1
38	0	1	0	1	0	0	0	0	0	0	0	0	2
39	0	0	0	0	0	0	0	1	0	0	0	0	1
40	0	1	0	0	0	1	0	0	1	1	0	1	5
41	1	1	0	0	0	0	1	0	0	2	0	0	5
42	1	0	0	0	0	0	0	0	0	0	0	0	1
43	0	1	1	0	0	0	0	0	2	0	0	1	5
44	0	0	2	0	0	0	0	0	0	0	0	0	2
45	0	1	0	1	0	0	0	1	0	0	0	0	3
46	0	1	0	0	0	0	0	2	0	0	0	0	3
47	0	0	1	1	1	0	0	0	0	0	0	0	5
48	0	0	0	0	0	0	0	0	0	1	0	0	1
50	0	0	1	2	0	0	0	1	0	0	0	1	5
51	0	0	1	0	0	0	0	2	0	0	1	1	5
52	0	0	1	0	0	0	1	0	0	0	0	0	2
53	2	0	0	1	0	0	0	0	0	0	0	0	3
54	0	0	1	0	0	0	1	0	0	0	0	0	2
57	1	0	1	0	0	0	0	0	0	0	0	0	2
58	0	0	1	0	0	0	0	0	0	0	0	0	1
59	0	0	1	0	0	0	0	0	0	0	0	0	1
60	0	1	1	0	0	0	0	0	0	0	0	0	2
61	0	1	0	0	0	0	1	0	0	0	0	0	2
62	0	0	1	0	0	0	1	0	0	0	0	0	2
63	0	0	1	0	0	0	0	0	0	0	0	0	1
64	0	0	1	0	0	0	0	0	0	0	0	0	1
	9	8	15	7	4	1	5	10	5	4	1	7	76

1 Shelikof
3 Chiniak Offshore
4 Barnabas 5 Twoheaded
10 Alitak Bay
11 Chiniak Bay 12 Kiliuda Bay
13 Kupreanof-Viekoda
14 Uganik Bay 16 Malina-Raspberry
19 Marmot-Izhut
20 Uyak Bay

Appendix G.9. Butter Sole lengths (cm) by area from a trawl survey of the Kodiak area, 1994.

Length (cm)	Area Group											(Totals)
	3	4	5	6	7	10	11	12	17	18	19	
≥25	1	9	0	0	0	1	13	0	2	26	27	26
26	6	5	0	0	0	0	0	0	0	1	12	12
27	5	0	0	0	0	0	0	0	3	8	8	8
28	13	1	0	0	0	0	1	0	2	17	17	17
29	6	3	0	0	0	4	2	0	3	18	18	18
30	12	1	0	2	0	3	1	0	5	24	24	24
31	12	2	3	5	0	3	7	0	6	38	38	38
32	8	2	2	7	0	4	5	0	7	35	35	35
33	12	3	1	3	0	2	5	3	11	40	40	40
34	3	4	4	2	0	2	5	1	10	31	31	31
35	2	3	5	3	0	1	3	0	10	27	27	27
36	5	2	8	2	0	0	2	2	6	27	27	27
37	0	0	3	1	0	0	3	0	4	11	11	11
38	0	0	5	3	0	0	1	0	8	17	17	17
39	0	0	4	1	1	0	0	0	3	9	9	9
40	0	0	3	0	0	0	1	1	3	8	8	8
41	0	0	1	2	0	0	0	0	5	9	9	9
42	0	0	0	1	0	0	0	0	2	3	3	3
44	0	0	2	0	0	0	0	0	1	3	3	3
46	0	0	0	0	0	0	0	1	0	1	1	1
	85	35	41	32	1	20	49	9	92	364		

3 Chiniak Offshore
4 Barnabas
5 Twoheaded 6 Alitak Bay
7 Geese Islands
10 Alitak Bay 11 Chiniak Bay
12 Kiliuda Bay
17 Ugak Bay

Appendix G.10. Rock Sole lengths (cm) by area from a trawl survey of the Kodiak area, 1994.

Length (cm)	Area Group										(Totals)
	1	3	4	5	11	12	13	14	17		
≤21	0	0	2	0	1	0	1	0	1	5	
22	0	0	0	0	0	0	2	0	0	2	
23	0	0	0	0	0	0	2	0	0	2	
24	0	0	1	0	1	0	0	0	0	2	
25	1	0	0	0	1	0	1	0	0	3	
26	0	0	0	0	0	0	1	0	0	1	
27	0	0	0	0	1	0	0	0	1	2	
28	0	0	0	0	2	0	3	0	0	5	
29	0	0	0	0	4	0	4	0	1	9	
30	0	0	1	0	2	0	5	2	0	10	
31	0	0	0	1	1	0	11	1	0	14	
32	0	0	1	0	4	1	3	0	1	10	
33	0	0	1	0	1	0	5	0	0	7	
34	0	1	0	0	2	1	0	0	1	5	
35	0	0	1	0	5	1	3	0	1	11	
36	0	0	0	0	2	1	2	0	1	6	
37	0	1	0	1	2	0	1	0	1	6	
38	0	2	1	0	0	1	3	0	2	9	
39	0	0	2	1	0	0	2	0	2	7	
40	0	1	1	2	2	2	3	0	1	12	
41	0	1	0	1	0	1	0	0	0	3	
42	0	0	1	3	0	0	0	0	0	4	
43	0	0	0	0	0	2	0	0	0	2	
44	0	0	0	0	0	0	0	0	1	1	
45	0	0	1	0	0	0	0	0	0	1	
46	0	0	1	0	0	0	0	0	0	1	
47	0	0	0	1	0	0	0	0	0	1	
56	0	0	0	1	0	0	0	0	0	1	
58	0	0	0	1	0	0	0	0	0	1	
61	0	0	0	1	0	0	0	0	0	1	
	1	6	14	13	31	10	52	3	14	144	

1 Shelikof 5 Twoheaded 13 Kupreanof-Viekoda
 3 Chiniak Offshore 11 Chiniak Bay 14 Uganik Bay
 4 Barnabas 12 Kiliuda Bay 17 Ugak Bay

Appendix G.11. Starry Flounder lengths (cm) by area from a trawl survey of the Kodiak area, 1994.

Length (cm)	Area Group										(Totals)
	1	4	5	11	12	13	15	16	17	20	
34	0	0	0	0	0	0	0	0	1	0	1
38	0	0	0	0	1	0	0	0	1	0	2
39	0	0	0	0	1	0	0	0	1	0	2
40	0	0	0	0	0	0	1	0	3	0	4
41	0	0	0	0	0	0	1	0	7	0	8
42	0	0	0	0	0	1	0	0	3	0	4
43	0	0	0	0	1	0	0	0	0	0	1
44	0	0	0	0	0	0	1	0	1	0	2
46	0	0	0	0	0	0	0	0	3	0	3
47	0	0	0	0	2	1	2	0	1	0	6
48	0	0	0	0	1	0	0	0	2	1	4
49	0	0	0	1	0	1	1	0	0	0	3
51	0	1	0	0	0	1	0	1	0	0	3
53	0	0	0	0	2	0	0	0	0	0	2
54	0	0	0	0	1	0	0	0	0	0	1
55	1	0	0	0	0	0	0	0	0	0	1
56	0	0	0	0	1	0	0	0	0	1	2
58	0	0	1	0	1	0	0	0	0	0	2
59	0	0	0	0	1	0	0	0	0	0	1
60	0	0	0	0	0	0	0	0	0	1	1
61	0	1	0	0	0	0	0	0	0	0	1
	1	2	1	1	12	4	6	1	23	3	54

1 Shelikof 12 Kiliuda 17 Ugak Bay
 4 Barnabas 13 Kupreanof-Viekoda 20 Uyak Bay
 5 Twoheaded 15 Inner Marmot Bay
 11 Chiniak Bay 16 Malina-Raspberry

Appendix G.12. Sablefish lengths (cm) by area from a trawl survey of the Kodiak area, 1994.

Length (cm)	Area Group																				(Totals)
	1	2	3	4	5	6	10	11	12	13	14	15	16	17	19	20					
29	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
33	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	3
34	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	3
35	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
36	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	3
37	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	5
38	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	6
39	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	0	0	0	0	7
40	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	10
41	0	0	0	0	0	0	0	0	0	2	7	0	0	0	0	0	0	0	0	0	11
42	0	0	0	0	0	0	0	0	0	1	9	1	0	0	0	0	0	0	0	1	12
43	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
44	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
45	1	0	1	0	1	4	0	4	0	0	0	1	0	0	0	0	0	0	0	0	9
46	1	0	1	1	4	1	2	0	2	3	0	0	0	0	0	0	0	0	0	0	16
47	1	0	1	0	0	0	3	0	1	0	4	0	0	1	0	0	0	0	0	0	12
48	3	0	2	2	5	0	4	1	0	7	5	0	0	0	0	0	0	0	0	0	32
49	10	1	1	4	3	0	2	0	0	9	2	0	0	0	0	0	0	0	0	0	34
50	4	0	1	1	3	0	3	0	1	9	7	0	2	0	0	0	0	0	0	1	32
51	2	0	1	0	1	0	5	0	2	10	2	0	0	0	0	0	0	0	0	0	26
52	5	0	2	0	3	0	2	0	0	10	1	0	0	1	0	0	0	0	0	0	29
53	2	0	3	1	0	0	0	0	0	6	3	0	0	0	0	0	0	0	0	0	18
54	3	0	0	1	0	0	2	0	1	2	2	0	0	0	0	0	0	0	0	0	14
55	1	1	2	1	1	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	12
56	3	0	3	3	1	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	15
57	1	1	1	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	9
58	1	0	1	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	6
59	3	1	1	6	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	15
60	1	2	3	6	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	16
61	0	0	0	1	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	4
62	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
63	1	1	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6
64	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
65	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
66	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
67	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
68	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
69	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
70	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
71	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
72	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
73	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
75	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1

- 1 Shelikof
- 2 Marmot Offshore
- 3 Chiniak Offshore
- 4 Barnabas
- 5 Twoheaded
- 6 Alitak Flats
- 10 Alitak Bay
- 11 Chiniak Bay
- 12 Kiliuda Bay
- 13 Kupreanof-Viekoda
- 14 Uganik Bay
- 15 Inner Marmot Bay
- 16 Malina-Raspberry
- 17 Ugak Bay
- 19 Marmot-Izhut Bay
- 20 Uyak Bay

Appendix G.13. Pacific cod lengths (cm) by area from a trawl survey of the Kodiak area, 1995.

Length (cm)	Area Group																				(Totals)
	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	19	20				
20	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
34	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
37	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	3
38	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3
39	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
40	1	0	0	1	0	0	0	1	1	0	0	1	2	1	0	1	0	0	0	0	9
41	3	0	1	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	8
42	5	0	0	5	0	1	0	2	1	1	0	4	0	0	0	0	0	0	0	0	19
43	3	0	0	0	1	0	0	2	1	0	0	1	0	0	0	0	1	0	0	0	9
44	17	1	1	0	0	0	0	1	2	0	0	3	2	0	0	0	0	0	0	0	27
45	11	0	0	3	0	1	0	2	1	0	4	0	0	0	0	0	0	0	0	0	22
46	7	0	0	1	0	0	0	1	0	0	5	0	1	0	0	0	0	0	0	0	15
47	11	0	2	1	0	0	0	6	2	1	6	1	1	0	3	0	0	0	0	0	34
48	7	0	1	2	0	0	0	2	0	0	4	0	2	0	0	0	0	0	0	0	18
49	6	0	0	5	0	0	0	0	1	0	6	0	2	0	0	1	0	0	0	0	21
50	7	0	1	4	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	15
51	2	0	3	2	0	0	0	3	3	4	0	0	0	0	0	2	1	0	0	0	19
52	1	0	0	0	4	1	0	0	2	2	2	1	2	0	0	0	0	0	0	0	20
53	4	0	2	6	1	1	0	3	2	6	3	0	1	2	0	0	0	0	0	0	31
54	3	0	2	12	2	0	0	3	6	4	2	1	2	0	0	3	0	0	0	0	43
55	6	3	2	6	2	0	0	5	3	3	0	1	4	0	0	3	0	0	0	0	37
56	2	0	2	10	0	1	0	5	5	5	0	1	2	0	0	2	1	1	0	0	37
57	1	1	2	8	5	1	0	3	5	1	3	0	5	0	0	5	0	0	0	0	45
58	5	2	1	7	3	2	0	5	6	5	1	2	1	4	0	4	1	0	0	0	45
59	0	0	2	17	7	7	0	7	6	3	4	1	4	0	4	4	0	0	0	0	59
60	6	3	3	13	6	3	3	7	8	8	6	0	6	0	2	3	0	0	0	0	77
61	3	2	1	12	9	1	0	6	4	4	4	1	3	1	4	5	0	0	0	0	60
62	6	1	2	9	10	2	1	7	8	4	4	3	5	0	2	5	1	1	0	0	70
63	8	4	4	9	7	1	0	4	6	5	5	4	5	0	3	7	2	1	0	0	74
64	11	3	3	9	9	3	1	5	9	4	4	3	2	1	4	1	1	1	0	0	82
65	12	3	5	4	13	2	0	5	9	2	9	4	5	1	0	14	0	0	0	0	80
66	3	0	3	5	6	2	1	8	6	5	3	2	11	0	1	2	0	0	0	0	70
67	9	4	2	7	12	2	1	10	7	7	3	3	2	4	1	1	2	0	0	0	75
68	5	2	5	2	6	3	1	7	7	3	3	2	6	0	2	3	2	0	0	0	59
69	6	0	2	2	12	2	0	8	3	2	6	3	6	1	0	4	2	0	0	0	59
70	6	0	2	2	11	4	0	4	1	2	2	1	2	0	0	1	1	0	0	0	45
71	3	1	2	2	5	0	0	10	1	2	3	0	2	0	0	3	1	0	0	0	37
72	5	1	0	2	8	1	0	5	0	2	4	2	2	0	0	1	2	0	0	0	36
73	4	0	1	2	9	0	0	2	2	1	3	1	0	0	0	1	2	2	0	0	32
74	4	0	0	1	7	0	0	3	0	0	1	0	0	0	0	1	3	0	0	0	20
75	1	0	2	2	3	1	0	4	2	1	3	1	0	0	0	1	2	1	0	0	24
76	1	0	2	2	4	2	0	7	1	3	1	0	3	0	0	1	1	2	0	0	30
77	1	0	1	3	5	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	13
78	0	1	1	0	8	1	0	2	0	0	3	2	0	0	0	1	0	0	0	0	24
79	3	0	1	0	4	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	10
80	0	0	2	0	3	0	0	5	0	0	1	1	0	0	0	0	0	0	0	0	12
81	0	0	3	2	6	2	0	1	0	0	0	0	0	0	0	0	1	0	0	0	15
82	0	0	2	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5
83	1	1	0	0	0	0	0	2	1	1	0	0	1	0	0	0	0	0	0	0	7
84	0	0	2	1	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	8
85	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
86	0	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	5
87	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
88	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
89	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
90	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
91	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
92	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
93	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
94	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
95	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
96	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
97	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
98	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

1 Shelikof
2 Marmot Offshore
3 Chiniak Offshore
4 Barnabas
5 Twoheaded

6 Alitak Flats
7 Geese Islands
10 Alitak Bay
11 Chiniak Bay
12 Kiliuda Bay

13 Kupreanof-Viekoda
14 Uganik Bay
15 Inner Marmot Bay
16 Malina Bay
17 Ugak Bay

19 Marmot-Izhut Bay
20 Uyak Bay

Appendix G.14. Pollock lengths (cm) by area from a trawl survey of the Kodiak area, 1994.

Length (cm)	Area Group																				(Totals)	
	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	19	20					
10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3			
11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11			
12	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6			
13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2			
18	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
20	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
21	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
22	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8			
23	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6			
24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3			
25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
26	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
29	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
30	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
31	2	0	0	0	0	0	0	0	4	0	0	1	0	0	0	0	0	0	7			
32	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	1	8		
33	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5		
34	2	0	0	0	0	0	1	0	3	0	1	1	0	0	0	0	0	0	0	8		
35	1	0	0	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	0	5		
36	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	1	7		
37	1	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	6		
38	2	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	2	7		
39	1	0	0	0	0	0	0	0	2	1	0	2	1	0	0	0	0	0	1	8		
40	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	6		
41	0	0	0	0	0	0	0	0	8	0	1	0	0	0	1	1	0	0	11			
42	0	0	0	0	1	1	0	0	12	0	0	0	1	0	0	0	0	0	15			
43	0	0	0	1	1	1	0	0	6	0	1	3	1	0	0	1	0	0	16			
44	0	0	0	0	1	4	0	0	10	1	1	3	1	0	0	3	2	0	0	26		
45	1	0	0	1	0	3	0	13	0	1	3	4	0	0	2	2	0	0	1	29		
46	2	1	0	1	2	6	0	13	0	0	3	2	0	0	3	4	0	0	1	38		
47	0	0	1	3	1	6	0	16	0	0	5	2	0	0	1	1	4	0	40			
48	3	0	1	4	1	12	0	18	0	1	4	4	1	0	2	1	1	1	2	55		
49	3	1	0	4	4	13	0	16	0	1	5	6	0	1	0	0	0	0	8	62		
50	4	0	2	6	3	16	0	11	3	1	5	5	6	1	1	1	1	0	6	70		
51	3	0	1	4	5	15	0	6	2	2	4	2	1	1	5	0	0	2	53			
52	2	0	1	6	3	11	0	8	1	0	7	3	3	0	3	0	0	2	53			
53	2	1	0	9	15	6	1	8	1	2	6	1	3	0	6	0	0	0	61			
54	5	1	1	5	7	5	0	6	2	3	5	1	3	0	0	0	0	0	50			
55	0	1	1	5	6	5	0	11	1	1	3	1	2	2	3	4	0	2	48			
56	3	1	1	6	3	3	0	3	0	1	1	2	4	0	3	1	0	0	32			
57	3	1	1	6	1	5	0	2	1	1	0	1	3	0	6	0	0	1	32			
58	2	0	0	7	3	3	0	7	2	2	0	3	0	0	3	0	0	0	32			
59	1	0	0	8	7	0	0	5	0	1	2	1	3	0	5	1	0	0	34			
60	1	0	0	5	1	0	0	1	0	0	0	1	0	0	3	0	0	0	12			
61	0	0	0	6	0	0	0	4	0	2	1	1	0	0	3	0	0	1	18			
62	1	0	0	4	1	0	0	1	0	1	0	0	1	0	0	0	1	0	10			
63	0	0	0	1	1	0	0	1	0	1	0	1	1	0	2	0	0	0	8			
64	1	0	0	1	1	0	0	1	0	0	1	2	1	0	2	0	0	0	10			
65	0	0	0	0	1	0	0	3	0	1	0	2	0	0	3	0	0	0	10			
66	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	5			
67	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
68	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3		
69	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
	95	7	10	96	70	116	2	223	14	29	70	52	32	24	62	11	42	955				

1 Shelikof
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13 Kupreanof-Viekoda
14 Uganik Bay

15 Inner Marmot Bay
16 Malina-Raspberry
17 Ugak Bay
19 Marmot-Izhut Bay
20 Uyak Bay

Appendix G.15. Rougheye Rockfish lengths (cm) by area from a trawl survey of the Kodiak area, 1994.

Length (cm)	Area Group																			(Totals)
	1	2	3	4	5	6	10	11	12	14	15	17	19	20						
14	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
15	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
16	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
17	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	
18	0	0	0	8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	9	
19	0	0	0	4	0	0	0	0	0	0	0	1	0	1	0	0	0	0	6	
20	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
21	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
22	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	4	
23	0	0	0	3	0	0	0	1	0	0	2	0	1	0	0	0	0	0	7	
24	1	0	0	2	1	0	0	0	0	0	1	1	1	0	0	0	0	0	7	
25	1	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
26	3	0	0	6	1	0	0	0	0	0	0	0	0	1	0	0	0	0	11	
27	1	1	0	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	7	
28	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
29	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
30	1	0	0	4	0	0	0	1	0	0	0	0	0	0	1	0	0	0	7	
31	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	
32	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
33	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
34	3	0	0	1	2	0	0	1	0	0	0	1	0	0	0	0	0	0	8	
35	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5	
36	5	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	10	
37	6	0	0	10	0	0	0	0	0	1	0	1	0	0	0	0	0	0	18	
38	5	0	0	9	0	0	2	1	1	0	0	0	0	0	0	0	0	0	18	
39	5	1	0	11	0	0	0	0	1	0	1	1	0	0	0	0	0	0	20	
40	3	0	0	7	0	1	1	0	0	0	0	0	0	0	1	0	0	0	13	
41	8	0	0	11	0	0	0	0	0	0	0	1	0	3	0	0	0	0	23	
42	4	1	0	9	0	0	0	0	0	0	0	2	0	1	0	0	0	0	17	
43	4	2	1	7	0	0	0	0	0	0	0	1	0	1	0	0	0	0	16	
44	1	4	1	5	0	0	0	0	0	0	0	0	1	0	0	1	0	0	13	
45	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
46	2	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
47	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
48	1	0	1	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	5	
51	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
53	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
57	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
60	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
63	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
64	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
73	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
74	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
75	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	

1 Shelikof
2 Marmot Offshore
3 Chiniak Offshore
4 Barnabas

5 Twoheaded
6 Alitak Flats
10 Alitak Bay
11 Chiniak Bay

12 Kiliuda Bay
14 Uganik Bay
15 Inner Marmot Bay
17 Ugak Bay

19 Marmot-Izhuut Bay
20 Uyak Bay

Appendix G.16. Dusky, northern, black, redstripe, and red-banded rockfish and herring, Pacific Ocean perch, and shortspine thornyhead lengths (cm) from a trawl survey of the Kodiak area, 1994. Two lingcod at 70 and 80 cms were also captured.

Length (cm)	herring	shortspine thornyhead	Pacific Ocean perch	Dusky Rockfish	Northern Rockfish	Black Rockfish	Redstripe Rockfish	Red-banded rockfish
10	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0
12	0	0	1	0	0	0	0	0
13	0	0	5	0	0	0	0	0
14	0	0	6	0	0	0	0	0
15	0	0	6	0	0	0	0	0
16	0	0	6	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	0	0	2	0	0	0	0	0
19	0	0	4	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	0	0	0	0	0	1	0	0
22	0	0	2	0	0	0	0	1
23	3	3	0	1	0	0	0	0
24	2	4	0	0	0	0	0	0
25	3	3	0	0	0	0	0	0
26	2	0	0	0	1	0	0	0
27	11	0	0	0	1	1	0	0
28	7	0	0	1	1	0	0	0
29	4	0	0	1	0	0	0	0
30	0	1	0	3	0	0	0	0
31	0	0	0	1	0	0	0	0
32	1	0	0	0	0	0	0	0
33	0	0	0	1	2	0	0	0
34	0	0	0	1	3	0	0	0
35	0	0	0	0	6	0	0	0
36	0	0	0	0	2	0	0	0
37	0	0	0	0	2	0	0	0
38	0	0	0	0	7	0	0	0
39	0	0	0	0	4	0	0	0
40	0	0	0	7	0	0	0	0
41	0	0	0	4	0	0	0	0
42	0	0	1	2	0	0	0	0
43	0	0	0	9	0	0	0	0
44	0	0	0	3	0	0	0	0
45	0	0	0	4	0	0	0	0
46	0	0	0	2	0	1	0	0
47	0	0	0	5	0	0	0	0
48	0	0	0	0	0	0	0	0
49	0	0	0	2	0	0	0	0
50	0	0	0	0	0	0	0	0

Appendix H. Numbers of Tanner Crab per 1.85 km (1 nautical mile) in 1994 in the South Peninsula Management District with population index by area.

Sta tion	Tow #	Juv	Females	Total	Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
			Adult		<70	70-91	92-114	>114		<165	>164			
SANAK ISLAND														
113	182	8	2	10	10	0	0	0	0	0	0	0	10	20
125	183	5	1	6	3	0	0	1	0	0	0	0	4	10
126	184	3	1	4	3	0	0	0	0	0	0	0	3	7
138A	185	3	0	3	7	1	2	0	0	0	0	0	10	13
138C	186	1	20	21	1	3	4	5	0	0	0	0	13	34
138B	187	1	1	2	2	0	1	0	0	0	0	0	3	5
137	188	6	1	7	10	1	1	1	0	0	0	0	13	20
Pop Est		87847	69011	156858	112055	13413	18801	19823	0	0	0	0	164091	320950
MORZHVOI BAY														
MOU	189	0	0	0	0	0	0	0	0	0	0	0	0	0
MOV	190	2	0	2	1	0	0	0	0	0	0	0	1	3
87C	191	0	0	0	0	0	0	0	0	0	0	0	0	0
87D	192	0	4	4	0	1	0	0	0	0	0	0	1	5
98C	193	0	0	0	1	0	1	0	0	0	0	0	2	2
87B	194	0	0	0	0	0	4	3	0	1	0	1	8	8
87A	195	0	10	10	0	0	13	51	0	5	0	5	69	79
MOP	196	0	80	80	0	2	20	38	0	2	0	2	62	142
MOS	197	5	4	9	1	0	5	17	2	1	0	3	26	35
MOR	198	3	0	3	0	1	3	0	0	0	0	0	4	7
MON	200	2	4	6	0	1	12	17	0	4	0	4	34	40
MOO	201	0	94	94	0	2	12	31	0	26	0	26	71	165
MOK	202	0	40	40	0	0	4	22	0	11	0	11	37	77
MOL	203	1	9	10	0	4	20	11	3	0	0	3	38	48
MOI	204	15	2	17	0	36	20	3	1	0	0	1	60	77
MOD	205	8	1	9	2	8	4	0	0	0	0	0	14	23
MOB	206	2	0	2	2	0	0	0	0	0	0	0	2	3
MOF	207	3	0	3	3	4	1	0	0	0	0	0	8	11
MOG	208	4	0	4	0	7	2	0	1	0	0	1	10	14
MOH	209	0	0	0	0	1	6	2	0	0	0	0	9	9
MOJ	210	0	1	1	0	0	0	0	0	0	0	0	0	1
Pop Est		43583	284888	328470	9922	62598	132024	214544	7299	49193	0	56492	475579	804049
COLD BAY/BELKOFSKI														
BEG	211	0	1	1	2	0	0	0	0	0	0	0	2	3
BEF	212	10	1	11	10	2	0	0	0	0	0	0	12	24
BEA	213	0	0	0	1	0	0	0	0	0	0	0	1	1
BEB	214	0	0	0	0	0	0	0	0	0	0	0	0	0

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Station	Tow #	Females			Sublegal Males				Recruit		Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114	<165	>164					
COLD BAY/BELKOFSKI (cont.)															
BED	215	3	0	3	1	1	0	4	2	0	0	0	2	8	11
BEC	216	2	0	2	1	0	1	0	0	0	0	0	0	2	4
BEE	217	0	1	1	0	1	0	0	0	0	0	0	0	1	2
156A	218	19	85	104	3	11	9	11	0	2	0	0	2	36	140
157A	219	4	4	8	0	0	1	2	0	0	0	0	0	3	11
145B	220	1	0	1	0	0	0	0	0	0	0	0	0	0	1
COO	221	2	32	34	0	1	4	13	1	2	0	0	3	21	55
132A	222	0	0	0	0	0	0	0	0	1	0	0	1	1	1
COM	223	2	15	17	0	1	19	21	0	1	0	0	1	42	60
COJ	224	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COF	225	2	0	2	1	2	3	0	1	0	0	0	1	8	10
COGA	226	2	0	2	0	1	9	19	48	3	0	0	51	80	82
COGB	227	5	2	7	0	5	17	38	21	1	2	2	24	84	91
COH	228	1	1	2	2	0	0	2	0	1	0	0	1	5	7
COE	229	27	3	30	6	25	18	4	0	0	1	1	1	54	84
COB	230	8	0	8	5	1	0	0	0	0	0	0	0	6	14
COC	231	5	0	5	2	1	1	0	0	0	0	0	0	4	9
Pop Est		96033	220312	316345	28880	54379	64115	75642	27345	10266	1258	38869	261884	578229	
PAVLOF BAY/VOLCANO															
VOO	232	1	63	64	2	1	4	5	0	3	0	3	15	79	
VOL	233	3	0	3	5	1	1	0	0	0	0	0	7	10	
VOQ	234	2	0	2	0	4	3	9	3	0	0	3	19	21	
VOR	235	0	0	0	0	1	9	28	13	0	0	13	51	51	
VON	236	2	1	3	0	3	13	16	9	0	0	9	41	44	
VOMB	237	0	2	2	0	0	2	2	1	0	0	1	5	7	
VOMA	238	1	0	1	2	0	3	1	0	0	0	0	6	7	
VOFA	239	0	0	0	0	0	2	0	2	0	0	2	3	3	
VOFB	240	0	1	1	0	0	1	3	0	0	0	0	4	5	
VOP	241	20	1	21	9	23	17	29	4	3	0	8	86	107	
VOG	242	0	5	5	0	0	0	6	0	3	0	3	9	14	
VOH	243	0	0	0	0	0	4	6	3	4	0	7	17	17	
VOI	244	0	1	1	0	0	1	5	5	2	0	7	13	14	
VOJ	245	0	4	4	0	0	0	2	0	0	0	0	2	6	
VOC	246	0	34	34	1	0	4	14	4	14	0	18	37	71	
VOB	247	0	2	2	0	0	1	1	1	0	0	1	3	6	
VOA	248	0	2	2	0	0	0	4	1	0	0	1	5	7	
PAU	249	0	6	6	0	5	7	6	1	0	0	1	19	25	
PARA	250	0	0	0	0	1	1	0	1	0	0	1	3	3	

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Appendix H. (page 3 of 4)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
PAVLOF BAY/VOLCANO (cont.)														
PAOA	251	0	0	0	0	0	1	0	0	0	0	0	1	1
PAOB	252	1	0	1	1	1	3	0	0	0	0	0	5	6
PAP	253	2	0	2	0	1	0	0	0	0	0	0	1	3
PAQ	254	3	0	3	0	0	0	0	0	0	0	0	0	3
PAS	255	0	0	0	0	0	0	0	0	0	0	0	0	0
PAWA	256	0	0	0	0	0	0	0	0	0	0	0	0	0
PAV	257	0	0	0	0	0	0	0	0	0	0	0	0	0
PARB	258	1	1	2	0	6	13	7	4	0	0	4	30	32
PAH	259	1	0	1	1	0	0	0	1	0	0	1	3	4
PAI	260	0	0	0	0	0	0	0	0	0	0	0	0	0
PAE	261	0	0	0	0	0	0	0	0	0	0	0	0	0
PAF	262	0	0	0	0	0	0	0	0	0	0	0	0	0
PAB	263	0	0	0	0	0	0	0	0	0	0	0	0	0
PAC	264	0	0	0	0	0	0	0	0	0	0	0	0	0
PAJ	265	3	0	3	2	1	0	0	0	0	0	0	3	6
PAM	266	0	0	0	2	1	0	0	0	0	0	0	3	3
PAL	267	6	0	6	2	0	0	0	0	0	0	0	2	8
VOD	268	2	7	9	0	2	9	6	6	0	0	6	23	32
VOE	269	0	0	0	0	0	0	0	0	0	0	0	0	0
228	270	0	0	0	1	0	0	0	0	0	0	0	1	1
245	271	0	2	2	0	1	1	1	0	0	0	0	3	5
Pop Est	40819	123378	164198	25438	50672	91918	143134	54379	28337	0	82717	393879	558076	
BEAVER/BALBOA BAY/UNGA														
329B	277	3	1	4	1	0	0	2	0	0	0	0	3	7
311A	278	0	1	1	0	0	0	0	0	0	0	0	0	1
BAF	279	1	0	1	1	0	0	0	0	0	0	0	1	2
BAD	280	0	3	3	3	0	1	3	0	1	0	1	8	11
BAA	281	0	0	0	0	0	0	0	0	0	0	0	0	0
BAC	282	2	15	17	4	0	3	4	0	0	0	0	11	28
BAE	283	4	20	24	4	1	10	15	4	2	0	6	36	60
BVB	284	3	0	3	0	0	1	0	0	0	0	0	1	4
BVA	285	0	0	0	0	0	0	0	0	0	0	0	0	0
BVD	286	0	0	0	0	0	0	0	0	0	0	0	0	0
BVC	287	0	0	0	0	0	0	0	0	0	0	0	0	0
278	288	0	0	0	0	0	0	3	0	1	0	1	4	4
312A	291	0	0	0	0	0	0	0	0	0	0	0	0	0
311B	292	0	0	0	0	0	0	1	0	0	0	0	1	1
329C	293	1	0	1	1	0	2	0	0	1	0	1	5	6

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Appendix H. (page 4 of 4)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
BEAVER/BALBOA BAY/UNGA (cont.)														
348	298	0	1	1	0	1	0	0	0	0	0	0	1	2
Pop Est	10118	29294	39412	9240	4361	11329	25120	2254	5938	0	8192	58243	97655	
STEPOVAK BAY														
368A	299	0	1	1	1	0	0	0	0	0	0	0	1	2
STD	300	1	0	1	0	0	0	0	0	0	0	0	0	1
STA	301	2	0	2	2	0	0	0	0	0	0	0	2	4
STB	302	1	0	1	2	0	0	0	0	0	0	0	2	3
STE	303	39	0	39	39	0	0	0	0	0	0	0	39	78
Pop Est	30462	2013	32474	32303	0	0	0	0	0	0	0	0	32303	64777
WEST NAGAI														
335	272	0	0	0	0	0	0	0	0	0	0	0	0	0
334	273	0	0	0	0	0	0	0	0	0	0	0	0	0
373B	274	1	6	7	2	5	13	17	7	0	0	7	44	51
393	275	0	0	0	1	1	0	3	0	0	0	0	6	6
371	276	0	0	0	0	0	0	0	0	0	0	0	0	0
332B	289	2	2	4	0	1	6	3	1	0	0	1	11	16
353	290	2	0	2	0	1	1	0	0	0	0	0	2	4
354	294	1	0	1	0	0	0	0	0	0	0	0	0	1
337	295	0	1	1	0	2	0	0	0	0	0	0	2	3
318	296	1	3	4	1	0	1	0	0	0	0	0	2	6
301	297	0	0	0	0	1	0	0	0	0	0	0	1	1
Pop Est	20348	24860	45208	8615	24858	29968	27774	8468	0	0	8468	99682	144890	
Total	329210	753755	1082965	226452	210281	348155	506035	99746	93734	1258	194738	1485661	2568626	

Appendix I. Numbers of Tanner crab per 1.85 km (1 nautical mile) in 1994 in the Chignik Management District with population index by area.

Sta tion	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
IVANOF BAY														
4007	304	1	0	1	1	0	0	0	0	0	0	0	1	2
4000	305	2	0	2	2	0	1	0	0	0	0	0	3	5
400X	306	3	34	37	0	1	4	8	4	1	0	5	18	55
4008	307	9	2	11	2	12	6	1	0	0	0	0	21	32
4915	308	1	0	1	0	0	0	0	0	0	0	0	0	1
4024	309	7	0	7	2	0	0	0	0	0	0	0	2	9
Pop Est		44186	12094	56280	13569	22612	12866	3832	984	246	0	1230	54110	110390
MITROFANIA														
4035	310	0	0	0	4	0	0	0	0	0	0	0	4	4
4049	311	2	0	2	2	0	0	0	0	0	0	0	2	4
4065	312	2	0	2	0	0	0	0	0	0	0	0	0	2
4064	313	4	2	6	2	4	1	1	1	1	0	2	10	16
4063	314	9	1	10	3	3	3	1	4	0	0	4	14	24
4048	315	4	0	4	4	4	8	0	0	0	0	0	16	20
Pop Est		48370	8682	57051	32122	19976	14992	6150	13384	2532	0	15917	89157	146208
CHIGNIK BAY														
4964	316	480	102	582	110	1133	990	99	11	0	0	11	2343	2925
4264	317	2	0	2	2	1	1	0	0	0	0	0	4	6
4265	318	0	0	0	0	0	0	0	0	0	0	0	0	0
4271	319	3	0	3	2	0	1	0	0	0	0	0	3	6
4270	320	6	17	23	11	0	2	3	0	10	0	10	26	49
4312	321	1	7	9	1	0	1	5	1	7	0	9	16	25
4267	322	4	1	5	3	0	0	1	0	2	0	2	6	11
4266	323	3	0	3	3	0	4	5	1	0	0	1	13	16
4256	324	3	0	3	1	0	0	0	0	0	0	0	1	4
4274	325	2	3	5	0	3	11	14	1	0	0	1	29	34
4278	326	7	19	26	2	25	33	23	4	2	0	6	89	115
4277	327	2	24	26	1	6	20	25	5	12	1	18	70	96
4272	328	1	2	3	4	0	1	0	0	0	0	0	5	8
4287	329	1	12	13	0	5	10	13	4	1	0	5	33	46
4282	330	0	9	9	0	1	2	5	3	1	0	4	12	21
4286	331	1	2	3	1	0	11	9	4	0	0	4	26	29
Pop Est		235448	135863	371311	72104	520864	514182	143525	28567	32314	949	61831	1312506	1683817

- Continued -

Appendix I. (page 2 of 2)

Station	Tow #	Juv	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
			Adult	Total	<70	70-91	92-114	>114	<165		>164				
KUJULIK BAY															
4298	332	3	0	3	3	7	1	1	0	0	0	0	0	12	15
4290	333	3	0	3	1	0	0	0	0	0	0	0	0	1	4
4296	334	1	2	3	2	3	9	4	0	0	0	0	0	18	21
4301	335	1	0	1	4	0	0	0	0	0	0	0	0	4	5
4302	336	1	0	1	1	0	0	0	0	0	0	0	0	1	2
4308	337	0	3	3	0	0	0	5	0	3	0	0	3	8	11
Pop Est		7736	3190	10926	9141	7322	4952	6471	0	2279	0	2279	30164	41090	
Total		335740	159829	495569	126937	570773	546992	159978	42936	37371	949	81256	1485936	1981506	

Appendix J. Numbers of king crab per 1.85 km (1 nautical mile) in 1994 in the Alaska Peninsula Management Area with population index by area.

Sta tion	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv	Adult	Total	Four	Three	Two	One					
SANAK ISLAND													
113	182	0	0	0	0	0	0	0	0	0	0	0	0
125	183	0	0	0	0	0	0	0	0	0	0	0	0
126	184	0	0	0	0	0	0	0	0	0	0	0	0
138A	185	0	0	0	0	0	0	0	0	0	0	0	0
138C	186	0	0	0	0	0	0	0	0	0	0	0	0
138B	187	0	0	0	0	0	0	0	0	0	0	0	0
137	188	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	0	0	0	0	0	0	0	0	0	0	0
MORZHVOI BAY													
MOU	189	0	0	0	0	0	0	0	0	0	0	0	0
MOV	190	0	0	0	0	0	0	0	0	0	0	0	0
87C	191	0	0	0	0	0	0	0	0	0	0	0	0
87D	192	0	0	0	0	0	0	0	0	0	0	0	0
98C	193	0	0	0	0	0	0	0	0	0	0	0	0
87B	194	0	0	0	0	0	0	0	0	0	0	0	0
87A	195	0	0	0	0	0	0	0	0	0	0	0	0
MOP	196	0	0	0	0	0	0	0	0	0	0	0	0
MOS	197	0	0	0	0	0	0	0	0	0	0	0	0
MOR	198	0	0	0	0	0	0	0	0	0	0	0	0
MON	200	0	0	0	0	0	0	0	0	0	0	0	0
MOO	201	0	0	0	0	0	0	0	0	0	0	0	0
MOK	202	0	0	0	0	0	0	0	0	0	0	0	0
MOL	203	0	0	0	0	0	0	0	0	0	0	0	0
MOI	204	0	0	0	0	0	0	0	0	0	0	0	0
MOD	205	0	0	0	0	0	0	0	0	0	0	0	0
MOB	206	0	0	0	0	0	0	0	0	0	0	0	0
MOF	207	0	0	0	0	0	0	0	0	0	0	0	0
MOG	208	0	0	0	0	0	0	0	0	0	0	0	0
MOH	209	0	0	0	0	0	0	0	0	0	0	0	0
MOJ	210	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	0	0	0	0	0	0	0	0	0	0	0
COLD BAY/BELKOFSKI													
BEG	211	0	0	0	0	0	0	0	0	0	0	0	0
BEF	212	0	0	0	0	0	0	0	0	0	0	0	0

- Continued -

Appendix J. (page 2 of 5)

Station #	Tow	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv	Adult	Total	Four	Three	Two	One					
COLD BAY/BELKOFSKI (cont.)													
BEA	213	0	0	0	0	0	0	0	0	0	0	0	0
BEB	214	0	0	0	0	0	0	0	0	0	0	0	0
BED	215	0	0	0	0	0	0	0	0	0	0	0	0
BEC	216	0	0	0	0	0	0	0	0	0	0	0	0
BEE	217	0	0	0	0	0	0	0	0	0	0	0	0
156A	218	0	0	0	0	0	0	0	0	0	0	0	0
157A	219	0	0	0	0	0	0	0	0	0	0	0	0
145B	220	0	0	0	0	0	0	0	0	0	0	0	0
COO	221	0	0	0	0	0	0	0	0	0	0	0	0
132A	222	0	0	0	0	0	0	0	0	0	0	0	0
COM	223	0	0	0	0	0	0	0	0	0	0	0	0
COJ	224	0	0	0	0	0	0	0	0	0	0	0	0
COF	225	0	0	0	0	0	0	0	0	0	0	0	0
COGA	226	0	0	0	0	0	0	0	0	0	0	0	0
COGB	227	0	0	0	0	0	0	0	0	0	0	0	0
COH	228	0	0	0	0	0	0	0	0	0	0	0	0
COE	229	21	29	50	2	15	16	7	0	0	0	40	90
COB	230	0	0	0	0	0	0	0	0	0	0	0	0
COC	231	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		19650	27135	46785	1871	14036	14971	6550	0	0	0	37428	84213
PAVLOF BAY/VOLCANO													
VOO	232	0	0	0	0	0	0	0	0	0	0	0	0
VOL	233	0	0	0	0	0	0	0	0	0	0	0	0
VOQ	234	0	0	0	0	0	0	0	0	0	0	0	0
VOR	235	0	0	0	0	0	0	0	0	0	0	0	0
VON	236	0	0	0	0	0	0	0	0	0	0	0	0
VOMB	237	0	0	0	0	0	0	0	0	0	0	0	0
VOMA	238	0	0	0	0	0	0	0	0	0	0	0	0
VOFA	239	0	0	0	0	0	0	0	0	0	0	0	0
VOFB	240	0	0	0	0	0	0	0	0	0	0	0	0
VOP	241	0	0	0	0	0	0	0	0	0	0	0	0
VOG	242	0	0	0	0	0	0	0	0	0	0	0	0
VOH	243	0	0	0	0	0	0	0	0	0	0	0	0
VOI	244	0	0	0	0	0	0	0	0	0	0	0	0
VOJ	245	0	0	0	0	0	0	0	0	0	0	0	0
VOC	246	0	0	0	0	0	0	0	0	0	0	0	0
VOB	247	0	0	0	0	0	0	0	0	0	0	0	0
VOA	248	0	0	0	0	0	0	0	0	0	0	0	0

-Continued-

Appendix J. (page 3 of 5)

Sta tion	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv	Adult	Total	Four	Three	Two	One					
PAVLOF BAY/VOLCANO (cont.)													
PAU	249	0	0	0	0	0	0	0	0	0	0	0	0
PARA	250	0	0	0	0	0	0	0	0	0	0	0	0
PAOA	251	0	0	0	0	0	0	0	0	0	0	0	0
PAOB	252	0	0	0	0	0	0	0	0	0	0	0	0
PAP	253	0	0	0	0	0	0	0	0	0	0	0	0
PAQ	254	0	0	0	0	0	0	0	0	0	0	0	0
PAS	255	0	0	0	0	0	0	0	0	0	0	0	0
PAWA	256	0	0	0	0	0	0	0	0	0	0	0	0
PAV	257	0	0	0	0	0	0	0	0	0	0	0	0
PARB	258	0	0	0	0	0	0	0	0	0	0	0	0
PAH	259	0	0	0	0	0	0	0	0	0	0	0	0
PAI	260	0	0	0	0	0	0	0	0	0	0	0	0
PAE	261	0	0	0	0	0	0	0	0	0	0	0	0
PAF	262	0	0	0	0	0	0	0	0	0	0	0	0
PAB	263	0	0	0	0	0	0	0	0	0	0	0	0
PAC	264	0	0	0	0	0	0	0	0	0	0	0	0
PAJ	265	0	0	0	0	0	0	0	0	0	0	0	0
PAM	266	0	0	0	0	0	0	0	0	0	0	0	0
PAL	267	0	0	0	0	0	0	0	0	0	0	0	0
VOD	268	0	0	0	0	0	0	0	0	0	0	0	0
VOE	269	0	0	0	0	0	0	0	0	0	0	0	0
228	270	0	0	0	0	0	0	0	0	0	0	0	0
245	271	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	0	0	0	0	0	0	0	0	0	0	0
BEAVER/BALBOA BAY/UNGA													
329B	277	0	0	0	0	0	0	0	0	0	0	0	0
311A	278	0	0	0	0	0	0	0	0	0	0	0	0
BAF	279	0	0	0	0	0	0	0	0	0	0	0	0
BAD	280	0	0	0	0	0	0	0	0	0	0	0	0
BAA	281	0	0	0	0	0	0	0	0	0	0	0	0
BAC	282	0	0	0	0	0	0	0	0	0	0	0	0
BAE	283	0	0	0	0	0	0	0	0	0	0	0	0
BVB	284	0	0	0	0	0	0	0	0	0	0	0	0
BVA	285	0	0	0	0	0	0	0	0	0	0	0	0
BVD	286	0	0	0	0	0	0	0	0	0	0	0	0
BVC	287	0	0	0	0	0	0	0	0	0	0	0	0
278	288	0	0	0	0	0	0	0	0	0	0	0	0
312A	291	0	0	0	0	0	0	0	0	0	0	0	0

- Continued -

Appendix J. (page 4 of 5)

Station	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv	Adult	Total	Four	Three	Two	One					
BEAVER/BALBOA BAY/UNGA (cont.)													
311B	292	0	0	0	0	0	0	0	0	0	0	0	0
329C	293	0	0	0	0	0	0	0	0	0	0	0	0
348	298	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	0	0	0	0	0	0	0	0	0	0	0
STEPOVAK BAY													
368A	299	0	0	0	0	0	0	0	0	0	0	0	0
STD	300	0	0	0	0	0	0	0	0	0	0	0	0
STA	301	0	0	0	0	0	0	0	0	0	0	0	0
STB	302	0	0	0	0	0	0	0	0	0	0	0	0
STE	303	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	0	0	0	0	0	0	0	0	0	0	0
WEST NAGAI													
335	272	0	0	0	0	0	0	0	0	0	0	0	0
334	273	0	0	0	0	0	0	0	0	0	0	0	0
373B	274	0	0	0	0	0	0	0	0	0	0	0	0
393	275	0	0	0	0	0	0	0	0	0	0	0	0
371	276	0	0	0	0	0	0	0	0	0	0	0	0
332B	289	0	0	0	0	0	0	0	0	0	0	0	0
353	290	0	0	0	0	0	0	0	0	0	0	0	0
354	294	0	0	0	0	0	0	0	0	0	0	0	0
337	295	0	0	0	0	0	0	0	0	0	0	0	0
318	296	0	0	0	0	0	0	0	0	0	0	0	0
301	297	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	0	0	0	0	0	0	0	0	0	0	0
IVANOF BAY													
4007	304	0	0	0	0	0	0	0	0	0	0	0	0
4000	305	0	0	0	0	0	0	0	0	0	0	0	0
400X	306	0	0	0	0	0	0	0	0	0	0	0	0
4008	307	0	0	0	0	0	0	0	0	0	0	0	0
4915	308	0	0	0	0	0	0	0	0	0	0	0	0
4024	309	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	0	0	0	0	0	0	0	0	0	0	0

-Continued-

Appendix J. (page 5 of 5)

Sta tion	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv	Adult	Total	Four	Three	Two	One					
MITROFANIA													
4035	310	0	0	0	0	0	0	0	0	0	0	0	0
4049	311	0	0	0	0	0	0	0	0	0	0	0	0
4065	312	0	0	0	0	0	0	0	0	0	0	0	0
4064	313	0	0	0	0	0	0	0	0	0	0	0	0
4063	314	0	0	0	0	0	0	0	0	0	0	0	0
4048	315	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	0	0	0	0	0	0	0	0	0	0	0
CHIGNIK BAY													
4964	316	0	0	0	0	0	0	0	0	0	0	0	0
4264	317	0	0	0	0	0	0	1	0	1	1	2	2
4265	318	0	0	0	0	0	0	0	0	0	0	0	0
4271	319	0	0	0	0	0	0	0	0	0	0	0	0
4270	320	0	0	0	0	0	0	0	0	0	0	0	0
4312	321	0	0	0	0	0	0	0	0	0	0	0	0
4267	322	0	0	0	0	0	0	0	0	0	0	0	0
4266	323	0	0	0	0	0	0	0	0	0	0	0	0
4256	324	0	0	0	0	0	0	0	0	0	0	0	0
4274	325	0	0	0	0	0	0	0	0	0	0	0	0
4278	326	0	0	0	0	0	0	0	0	0	0	0	0
4277	327	0	0	0	0	0	0	0	0	0	0	0	0
4272	328	0	0	0	0	0	0	0	0	0	0	0	0
4287	329	0	0	0	0	0	0	0	0	0	0	0	0
4282	330	0	0	0	0	0	0	0	0	0	0	0	0
4286	331	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	0	0	0	0	0	892	0	892	892	1783	1783
KUJULIK BAY													
4298	332	0	0	0	0	0	0	0	0	0	0	0	0
4290	333	0	0	0	0	0	0	0	0	0	0	0	0
4296	334	0	0	0	0	0	0	1	0	1	1	2	2
4301	335	0	0	0	0	0	0	0	0	0	0	0	0
4302	336	0	0	0	0	0	0	0	0	0	0	0	0
4308	337	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		0	0	0	0	0	0	456	0	456	456	911	911
Grand Total		19650	27135	46785	1871	14036	14971	7897	0	1347	1347	40123	86908

Appendix K.1 Arrowtooth lengths (cm) by area from a trawl survey
of the Alaska Peninsula area, 1994.

Length (cm)	Area Group												(Totals)
	21	22	23	24	25	26	27	61	62	63	64		
6	0	0	0	0	1	0	0	0	0	0	0	0	1
9	0	0	0	0	0	1	0	0	0	0	0	0	1
13	0	0	0	0	1	0	0	1	0	0	0	0	2
14	0	0	0	0	0	0	0	2	0	0	0	0	2
15	0	0	0	0	4	0	1	4	0	1	0	0	10
16	0	0	0	1	2	0	0	0	0	0	0	0	3
17	1	0	1	1	3	0	1	2	0	0	1	0	10
18	0	0	1	0	2	1	0	0	0	0	2	0	6
19	0	0	0	1	3	1	2	3	0	0	1	0	11
20	1	1	1	2	7	0	3	3	4	0	0	0	22
21	0	1	0	1	3	1	3	4	4	0	0	0	17
22	0	0	1	2	2	3	13	9	3	0	0	0	33
23	2	2	7	4	4	1	10	3	5	2	0	0	40
24	0	1	5	5	10	1	11	11	1	5	0	0	50
25	3	3	8	7	13	3	10	5	4	2	1	0	59
26	5	4	4	4	19	4	7	7	10	5	0	0	69
27	5	8	4	8	25	5	13	10	6	9	0	0	93
28	7	12	3	8	19	3	24	11	5	14	2	0	108
29	3	21	6	18	29	9	28	7	3	11	1	0	136
30	8	22	7	19	22	5	16	5	3	23	4	0	134
31	5	15	11	14	19	7	19	2	4	10	2	0	108
32	4	20	10	19	12	2	8	0	2	14	3	0	94
33	7	16	2	22	12	2	5	2	2	8	3	0	81
34	1	16	4	22	11	1	6	2	2	7	1	0	73
35	0	12	2	13	6	3	6	1	5	10	1	0	59
36	2	11	4	14	9	1	3	0	2	5	2	0	53
37	0	18	0	11	4	0	6	0	1	5	0	0	45
38	3	11	2	17	5	0	4	0	0	10	2	0	54
39	0	8	1	9	3	2	5	0	1	9	2	0	40
40	1	5	0	8	3	3	1	0	3	7	3	0	34
41	1	5	0	4	0	3	7	0	1	10	0	0	31
42	3	6	1	5	2	0	5	1	1	7	1	0	32
43	1	3	0	2	6	1	7	0	0	3	0	0	23
44	2	3	1	1	1	0	4	1	1	3	0	0	20
45	1	3	0	6	0	1	13	0	2	6	3	0	35
46	2	2	0	3	2	2	3	1	0	3	0	0	17
47	0	2	0	3	3	0	7	1	3	4	2	0	25
48	0	2	0	5	0	1	4	0	2	5	2	0	21
49	1	4	1	1	3	2	14	1	1	4	1	0	33
50	1	4	0	4	0	3	7	1	1	5	3	0	29
51	0	1	0	7	4	2	8	0	1	1	2	0	26
52	0	0	1	5	2	1	6	0	0	0	0	0	15
53	2	1	0	1	0	1	3	0	1	3	2	0	14
54	0	1	0	4	3	1	2	2	0	0	0	0	13
55	1	2	1	2	0	1	0	0	0	0	0	0	10
56	1	0	0	4	1	2	4	0	0	0	2	1	15
57	3	0	0	5	0	0	0	0	0	0	0	0	11
58	0	2	0	1	0	0	2	0	0	0	0	0	5
59	0	2	0	1	0	1	1	1	0	0	0	0	6
60	2	0	0	3	1	1	0	0	0	0	1	0	7
61	0	0	0	1	1	0	0	1	0	0	1	0	4
62	0	1	0	2	0	0	0	0	0	0	0	0	3
63	0	0	0	3	0	0	0	0	0	0	2	0	5
64	1	0	0	1	2	2	0	0	0	0	1	1	8
65	0	1	0	1	0	0	2	0	0	1	1	0	6
66	1	0	0	0	1	0	2	0	0	0	4	0	8
67	3	0	0	2	0	0	2	0	0	0	2	0	9
68	0	0	0	0	1	0	0	0	0	0	0	0	1
69	0	1	0	0	1	0	1	0	0	0	0	1	4
70	1	0	0	1	2	0	1	0	0	0	0	1	6
71	0	0	0	1	0	1	0	0	0	0	1	0	3
72	1	0	0	0	3	0	0	0	0	2	0	0	6
74	0	0	0	1	1	0	0	0	0	0	1	0	3
75	1	0	0	0	0	2	0	0	0	0	1	0	4

-Continued-

Appendix K.1 (page 2 of 2)

Length (cm)	Area Group												
	21	22	23	24	25	26	27	61	62	63	64	(Totals)	
78	0	0	0	0	1	0	0	0	0	0	0	0	1
79	0	0	0	0	0	1	0	0	0	0	0	0	1
80	0	0	0	0	0	0	1	0	0	0	0	0	1
82	0	0	0	0	1	0	0	0	0	0	0	0	1
	87	253	89	310	297	84	312	103	89	235	51	1910	

21 SANAK ISLAND	24 Pavlof/Volcano	27 West Nagai	63 Chignik Bay
22 MORZHVOI BAY	25 Beaver/Balboa/Unga Strait	61 Ivanof Bay	64 Kujulik Bay
23 COLD BAY/BELKOFSKI	26 Stepovak	62 Mitrofania	

Appendix K.2 Flathead sole lengths (cm) by area from a trawl survey of the Alaska Peninsula area, 1994.

Length (cm)	Area Group												
	21	22	23	24	25	26	27	61	62	63	64	(Totals)	
≤10	16	0	10	24	20	2	10	4	1	9	10	106	
11	8	1	4	7	2	0	0	2	0	3	2	29	
12	7	1	3	3	3	4	1	1	0	2	3	28	
13	2	0	3	5	1	5	3	2	0	3	1	25	
14	5	0	6	8	4	2	3	3	1	10	0	42	
15	5	2	11	5	8	3	5	6	1	14	5	65	
16	11	0	9	6	6	8	5	16	3	18	5	87	
17	12	1	9	6	8	6	10	6	2	12	11	83	
18	14	2	15	12	8	7	7	2	2	8	4	81	
19	14	4	10	13	3	0	3	5	0	9	2	63	
20	6	1	16	8	1	7	2	9	1	5	2	58	
21	15	1	19	10	6	8	3	8	1	13	2	86	
22	5	0	15	10	8	6	4	8	3	11	3	73	
23	9	0	18	7	8	12	5	9	1	13	2	84	
24	12	3	17	17	6	18	9	12	8	19	1	122	
25	10	4	20	11	7	7	8	12	4	22	3	108	
26	10	4	29	7	9	8	14	9	5	20	6	121	
27	5	3	24	8	9	7	10	13	4	20	8	111	
28	10	6	42	11	15	6	26	4	6	24	6	156	
29	11	11	32	12	17	3	26	4	9	25	6	156	
30	13	23	44	14	28	4	19	11	14	22	7	199	
31	12	31	26	38	23	3	27	3	10	18	13	204	
32	12	29	26	51	21	7	24	4	15	20	11	220	
33	14	27	27	69	13	5	19	7	12	24	8	225	
34	9	31	20	59	15	7	20	4	11	23	18	217	
35	5	20	27	57	7	0	11	0	15	18	13	173	
36	7	13	19	22	9	3	5	2	10	19	7	116	
37	5	25	16	22	15	2	8	7	8	14	9	131	
38	7	14	11	21	8	2	0	2	9	11	12	97	
39	2	24	9	22	7	4	1	2	6	10	4	91	
40	2	17	5	25	4	2	0	1	6	7	5	74	
41	0	9	9	18	0	0	1	2	5	7	4	55	
42	1	10	4	26	1	0	0	1	2	9	2	56	
43	0	1	1	21	1	0	1	0	0	6	8	39	
44	0	7	3	18	0	0	0	0	0	3	1	32	
45	0	5	2	11	0	0	0	0	0	2	2	22	
46	0	0	0	12	0	0	0	0	0	2	0	14	
47	0	4	0	3	0	0	0	0	0	0	1	8	
48	0	4	0	2	0	0	0	0	0	1	1	8	
49	0	0	0	5	0	0	0	0	0	0	1	6	
50	0	0	0	3	0	0	0	0	0	1	0	4	
51	0	0	6	3	0	0	0	0	0	0	0	9	
54	0	0	0	1	0	0	0	0	0	0	0	1	
	276	338	567	713	301	158	290	181	175	477	209	3685	

21 SANAK ISLAND	24 Pavlof/Volcano	27 West Nagai	63 Chignik Bay
22 MORZHVOI BAY	25 Beaver/Balboa/Unga Strait	61 Ivanof Bay	64 Kujulik Bay
23 COLD BAY/BELKOFSKI	26 Stepovak	62 Mitrofania	

Appendix K.3 Halibut lengths (cm) by area from a trawl survey of the Alaska Peninsula area, 1994.

Length (cm)	Area Group												(Totals)	
	21	22	23	24	25	26	27	61	62	63	64			
27	0	0	0	1	0	0	0	0	0	0	1	2		
28	0	0	0	2	0	0	0	0	0	0	0	2		
29	0	0	2	2	0	0	0	0	0	0	0	4		
30	0	0	1	4	0	0	0	0	0	0	0	5		
31	0	0	0	7	0	0	0	0	0	0	0	7		
32	0	0	0	8	0	0	0	0	0	0	0	8		
33	0	0	0	3	0	0	0	0	0	0	2	5		
34	0	0	0	2	0	0	0	0	0	0	4	6		
35	0	0	0	6	1	0	0	0	0	0	3	10		
36	0	0	0	12	0	0	0	0	0	0	5	17		
37	0	0	0	24	1	0	0	0	0	0	3	28		
38	0	0	0	29	1	0	0	0	0	0	2	32		
39	0	0	2	31	0	0	0	0	0	0	2	35		
40	0	0	0	34	0	0	0	0	1	0	0	2	37	
41	0	0	1	22	3	0	0	0	1	0	0	2	29	
42	0	1	0	16	4	0	0	0	0	0	0	0	21	
43	0	2	2	12	0	0	0	0	0	0	1	2	19	
44	0	0	0	23	1	0	0	0	1	0	0	0	25	
45	0	0	1	30	3	0	0	0	0	3	2	39		
46	0	0	3	12	3	0	0	0	0	0	2	20		
47	0	0	2	16	2	0	0	0	0	0	0	1	21	
48	0	0	1	11	2	0	0	0	1	0	1	1	17	
49	0	0	1	9	4	0	0	0	0	0	2	16		
50	0	2	4	8	2	0	0	2	0	3	0	21		
51	0	0	1	8	1	0	0	1	0	0	1	12		
52	0	0	2	10	4	0	0	2	1	0	1	1	21	
53	0	2	1	8	4	0	0	0	0	1	0	16		
54	0	1	2	12	2	0	0	0	0	1	1	19		
55	0	2	1	4	0	0	3	0	0	0	0	10		
56	0	1	3	8	4	1	0	0	0	0	0	1	18	
57	0	4	1	4	1	0	0	0	0	2	0	12		
58	0	1	2	11	1	0	0	1	0	0	1	0	17	
59	0	1	4	3	0	0	4	1	0	0	0	0	13	
60	0	4	2	7	2	0	0	0	1	0	0	0	16	
61	0	0	4	5	2	0	0	4	0	0	0	0	16	
62	0	3	2	5	3	1	2	1	0	0	0	0	17	
63	1	1	4	2	3	0	1	0	0	0	0	1	13	
64	0	3	2	4	2	0	0	3	1	0	2	1	18	
65	0	6	1	1	2	0	0	0	2	0	0	1	13	
66	0	0	0	3	4	0	0	3	0	0	0	3	13	
67	1	0	0	2	3	0	0	2	0	0	1	0	9	
68	0	2	4	7	1	0	0	2	0	0	2	1	19	
69	0	0	1	4	3	0	0	0	0	0	1	1	10	
70	0	1	3	3	2	0	0	5	0	0	0	0	14	
71	0	1	1	4	1	0	0	2	0	0	2	1	12	
72	0	4	2	4	3	0	0	3	0	0	1	1	18	
73	3	3	3	3	1	0	7	0	0	2	1	1	23	
74	0	3	8	9	1	0	4	0	0	4	0	0	29	
75	0	7	4	1	5	1	6	0	0	3	1	1	28	
76	0	3	0	0	0	1	4	0	0	0	1	0	9	
77	2	1	1	1	1	1	1	0	0	0	3	1	12	
78	1	3	0	4	1	0	3	0	0	1	2	1	15	
79	0	2	0	3	1	0	4	1	1	1	1	1	14	
80	1	2	1	2	0	0	3	0	0	1	0	0	10	
81	0	2	1	1	0	0	6	2	1	1	1	0	14	
82	0	2	1	0	2	0	5	1	0	1	2	14		
83	1	1	1	6	4	0	7	0	0	2	2	24		
84	3	1	0	0	3	0	3	1	0	2	1	14		
85	2	5	2	1	2	0	2	0	0	0	0	0	14	
86	1	4	1	1	6	0	6	0	0	3	1	23		
87	0	2	0	1	1	0	1	0	0	0	1	6		
88	0	3	3	3	2	0	2	0	0	0	3	0	16	
89	0	4	0	0	1	1	2	0	0	1	2	11		

-Continued-

Appendix K.3 (page 2 of 2)

Length (cm)	Area Group												(Totals)
	21	22	23	24	25	26	27	61	62	63	64		
90	0	2	3	4	1	1	3	0	0	2	0	16	
91	0	0	0	2	0	0	1	0	0	1	1	5	
92	0	3	0	4	2	1	5	0	0	1	0	16	
93	1	1	0	1	0	1	3	0	1	2	0	10	
94	1	3	2	2	2	0	0	0	0	1	0	11	
95	1	2	2	3	3	1	2	0	0	1	0	15	
96	0	1	1	3	1	0	2	1	0	2	2	13	
97	5	3	0	3	0	0	1	0	1	1	0	14	
98	0	1	2	1	0	2	0	0	0	0	0	6	
99	0	0	1	0	3	0	1	0	0	0	0	5	
100	0	1	0	1	1	0	2	0	2	0	0	7	
101	0	2	2	0	1	0	2	0	1	0	0	8	
102	0	0	0	0	0	0	0	0	0	1	0	1	
103	0	0	0	1	3	0	3	2	1	0	2	12	
104	0	0	0	1	3	0	0	1	0	1	1	7	
105	0	1	0	1	2	0	3	0	0	0	0	7	
106	0	1	0	0	0	0	0	0	0	1	0	2	
107	0	1	1	5	0	0	0	0	0	1	1	9	
108	0	1	1	0	0	0	0	0	0	0	0	2	
109	0	1	0	0	0	0	0	1	0	1	1	4	
110	1	1	1	4	2	0	1	1	0	0	2	13	
111	0	1	0	0	0	0	1	0	0	1	0	3	
112	0	1	1	0	1	0	0	1	0	0	0	5	
113	0	1	1	1	0	0	0	0	0	0	0	3	
114	0	1	1	0	0	0	0	0	0	0	0	2	
115	0	1	1	0	0	0	0	0	0	0	0	2	
116	0	0	1	2	0	0	0	0	0	0	0	3	
117	0	0	0	1	0	0	0	0	0	0	0	1	
120	0	1	0	0	0	0	0	0	0	0	0	1	
123	0	1	0	0	1	0	0	0	0	0	0	2	
124	0	0	1	0	0	0	0	0	0	0	0	1	
125	0	1	0	1	0	0	0	0	0	1	0	3	
127	0	0	0	3	0	0	0	0	0	0	0	3	
128	0	0	0	1	0	0	0	0	0	0	0	1	
129	0	0	1	0	0	0	0	0	0	0	0	1	
130	0	0	0	1	0	0	0	0	0	0	0	1	
131	0	1	0	1	0	0	0	0	0	0	0	2	
132	0	0	1	2	0	0	0	0	0	0	0	3	
135	0	0	1	1	0	0	0	0	0	0	1	0	
136	0	0	2	0	0	0	0	0	0	0	0	2	
138	0	0	1	0	0	0	0	0	0	0	0	1	
139	0	0	0	1	1	0	1	0	0	0	0	3	
147	0	0	1	0	0	0	0	0	0	0	0	1	
153	0	0	0	0	0	0	0	0	0	0	1	0	
155	0	1	0	0	0	0	0	0	0	0	0	1	
157	0	0	1	0	0	0	0	0	0	0	0	1	
163	0	2	0	0	0	0	0	0	0	0	0	2	
170	0	0	0	1	0	0	0	0	0	0	0	1	
174	0	0	1	0	0	0	0	0	0	0	0	1	
202	0	0	0	0	0	0	0	0	0	0	0	1	
205	0	0	0	1	0	0	0	0	0	0	0	1	

21 SANAK ISLAND
22 MORZHVOI BAY
23 COLD BAY/BELKOFSKI

24 Pavlof/Volcano
25 Beaver/Balboa/Unga Strait
26 Stepovak

27 West Nagai
61 Ivanof Bay
62 Mitrofania

63 Chignik Bay
64 Kujulik Bay

Appendix K.4 Yellowfin sole lengths (cm) by area from a trawl survey of the Alaska Peninsula area, 1994.

Length (cm)	Area Group								(Totals)
	22	23	24	25	26	27	61	63	
10	0	1	0	0	0	0	0	0	1
11	0	2	1	0	0	0	0	0	3
13	0	2	0	1	0	0	0	0	3
14	0	0	1	1	0	0	0	0	4
15	0	0	0	1	0	0	0	1	2
16	0	4	1	0	0	0	0	0	5
17	0	2	3	0	0	0	0	0	5
18	0	0	5	0	0	0	0	0	5
19	0	3	4	0	0	0	0	0	7
20	0	2	6	0	0	0	0	2	10
21	0	5	5	0	0	0	0	0	10
22	2	4	9	1	0	0	1	0	17
23	0	6	12	2	0	0	0	3	23
24	2	14	8	4	0	0	0	5	33
25	4	19	16	2	0	0	0	3	48
26	5	16	21	8	0	0	0	3	53
27	7	19	42	9	1	0	2	4	85
28	4	36	31	12	0	0	2	4	89
29	8	40	56	24	1	1	1	8	0
30	14	56	75	29	2	0	3	2	182
31	14	53	83	37	0	2	5	2	196
32	21	66	66	28	1	3	5	1	2
33	29	55	74	23	1	3	7	4	199
34	15	58	47	20	0	5	4	2	152
35	19	38	37	9	3	4	11	4	0
36	15	28	19	3	1	2	3	0	73
37	14	16	13	3	2	0	3	1	0
38	7	14	7	1	2	1	3	3	1
39	9	5	6	0	2	0	3	0	25
≥40	12	2	4	1	0	0	1	2	0
	201	566	652	219	16	21	54	41	1800

22 MORZHVOI BAY
23 COLD BAY/BELKOFSKI
24 PAVLOF BAY/VOLCANO

25 BEAVER/BALBOA BAY/UNGA
26 STEPPOVAK BAY
27 WEST NAGAI

61 IVANOF STRAIT
63 CHIGNIK BAY
64 KUJULIK BAY

Appendix K.5 Starry Flounder lengths (cm) by area from a trawl survey of the Alaska Peninsula area, 1994.

Length (cm)	Area Group							(Totals)
	22	23	24	25	61	63	64	
34	0	1	0	0	0	0	0	1
35	0	1	1	0	0	0	0	2
37	0	3	0	0	0	0	1	4
39	0	2	0	0	0	0	0	2
40	0	5	0	0	0	0	0	5
41	0	2	0	0	0	0	0	2
42	0	2	1	0	0	0	0	3
44	0	1	0	0	0	0	0	1
45	0	1	0	0	0	1	0	2
46	0	0	1	0	0	0	0	1
47	0	1	0	0	0	0	0	1
49	0	1	0	0	0	0	0	1
50	1	0	0	0	0	0	0	1
51	0	0	1	0	0	0	0	1
52	0	1	1	0	0	0	0	2
56	1	0	0	1	0	0	0	2
57	1	1	0	0	0	0	0	2
61	0	0	0	0	1	1	0	2
62	0	0	0	0	1	1	0	2
	3	22	5	1	1	2	2	36

22 MORZHVOI BAY
23 COLD BAY/BELKOFSKI
24 PAVLOF BAY/VOLCANO

25 BEAVER/BALBOA BAY/UNGA
61 IVANOF BAY
63 CHIGNIK BAY

64 KUJULIK BAY

Appendix K.6 Rock sole lengths (cm) by area from a trawl survey of the Alaska Peninsula area, 1994.

Length (cm)	Area Group												(Totals)
	21	22	23	24	25	26	27	61	62	63	64		
≤10	0	0	0	1	0	0	0	0	0	0	1	2	
14	0	0	0	0	0	0	0	0	0	0	1	1	
15	0	0	0	0	0	0	0	0	0	0	1	1	
16	0	0	0	0	0	0	0	0	0	0	3	3	
17	0	0	0	0	0	0	0	0	0	0	5	5	
18	0	0	0	0	0	0	0	0	0	0	13	13	
19	0	0	0	2	0	0	0	0	0	0	0	2	
20	0	0	0	1	0	0	0	0	0	0	1	2	
21	0	1	0	0	0	0	0	0	0	0	1	2	
22	0	1	1	0	2	0	0	0	0	0	0	4	
23	0	1	2	2	1	0	1	0	0	0	3	10	
24	0	6	6	1	2	0	0	0	0	0	3	18	
25	0	8	12	4	2	0	1	0	0	0	1	28	
26	0	11	16	4	5	0	1	0	0	0	3	40	
27	0	11	20	4	7	0	0	0	0	0	0	42	
28	0	11	17	9	7	0	3	0	0	0	1	48	
29	0	18	13	9	5	0	1	0	0	0	0	46	
30	1	13	20	21	8	0	2	0	0	0	1	1	67
31	0	12	13	13	5	1	2	1	1	0	0	48	
32	0	9	6	10	6	0	0	0	0	0	1	0	32
33	0	7	6	10	3	0	1	0	1	0	0	28	
34	0	4	4	8	1	0	1	2	0	0	0	20	
35	0	3	6	5	2	0	0	0	0	0	1	17	
36	0	4	7	5	3	0	0	0	0	0	0	19	
37	0	1	3	8	4	0	0	1	0	0	0	17	
38	0	4	1	3	0	0	0	0	0	0	0	8	
39	0	2	0	8	1	0	1	0	0	0	0	12	
≥40	0	4	3	10	2	0	0	1	3	1	* 1	25	
	1	131	156	138	66	1	14	5	5	3	40	560	

21 SANAK ISLAND
22 MORZHVOI BAY
23 COLD BAY/BELKOFSKI

24 Pavlof/Volcano
25 Beaver/Balboa/Unga Strait
26 Stepovak

27 West Nagai
61 Ivanof Bay
62 Mitrofania

63 Chignik Bay
64 Kujulik Bay

Appendix K.7 Rougheye Rockfish lengths (cm) by area from a trawl survey of the Alaska Peninsula area, 1994.

Length (cm)	Area Group						(Totals)
	21	22	24	61	62	63	
15	0	0	0	1	0	0	1
16	0	0	0	1	0	0	1
17	0	0	0	0	1	0	1
19	2	0	0	0	0	0	2
20	1	0	0	1	0	0	2
21	0	0	0	2	0	0	2
22	0	0	0	0	0	1	1
23	0	0	1	0	0	0	1
28	0	0	0	1	0	1	2
29	0	0	0	1	0	1	2
30	0	0	0	0	1	0	1
31	0	0	0	1	0	0	1
32	1	1	0	0	0	0	2
33	0	0	0	0	0	2	2
34	0	0	0	1	0	0	1
35	0	0	0	0	0	1	1
36	0	0	0	0	0	2	2
37	1	0	0	0	0	1	2
38	0	0	0	0	0	2	2
39	0	0	0	0	0	1	1
≥40	4	0	1	0	2	11	18
	9	1	2	9	4	23	48

21 SANAK ISLAND
22 MORZHVOI BAY

24 PAVLOF/VOLCANO
61 IVANOF BAY

62 MITROFANIA
63 CHIGNIK BAY

Appendix K.8. Sablefish lengths (cm) by area from a trawl survey of the Alaska Peninsula area, 1994.

Length (cm)	Area Group										(Totals)
	22	23	24	25	26	27	61	63	64		
32	0	0	1	0	0	0	0	0	0	0	1
33	0	0	3	0	0	0	0	0	0	0	3
34	0	1	1	0	0	0	1	0	0	0	3
35	0	2	3	0	0	0	0	0	0	0	5
36	0	1	7	0	0	0	0	0	0	0	8
37	0	0	1	1	0	0	0	2	0	0	4
38	1	1	1	0	0	0	0	0	0	0	3
39	0	0	1	0	0	0	0	0	0	0	1
40	0	0	0	0	0	0	0	1	0	0	1
44	0	0	1	0	0	0	0	1	0	0	2
45	1	0	1	0	0	0	0	0	0	0	2
46	0	0	2	0	0	1	0	0	0	0	3
47	0	0	4	0	1	1	0	0	0	0	6
48	0	0	3	0	1	2	0	2	0	0	8
49	0	1	1	0	0	3	0	0	1	0	6
50	0	0	0	0	0	0	0	1	0	0	1
51	0	0	2	0	1	2	0	2	0	0	7
52	0	0	0	1	0	1	0	0	0	0	2
53	0	0	0	1	0	1	0	1	0	0	3
59	0	0	0	0	0	0	0	0	0	0	2
61	0	0	0	0	0	0	0	1	0	0	1
62	0	0	0	0	1	0	0	0	0	0	1
72	0	0	0	0	0	0	0	1	0	0	1
78	0	0	0	0	0	0	0	1	0	0	1
	2	6	32	3	4	13	1	13	1	75	

22 MORZHOOVI BAY
23 COLD BAY/BELKOFSKI
24 PAVLOF BAY/VOLCANO

25 BEAVER/BALBOA BAY/UNGA
26 STEPONAK BAY
27 WEST NAGAI

61 IVANOF BAY
63 CHIGNIK BAY
64 KUJULIK BAY

Appendix K.9 Pacific cod lengths (cm) by area from a trawl survey of the Alaska Peninsula area, 1994.

Length (cm)	Area Group										(Totals)	
	21	22	23	24	25	26	27	61	62	63		
7	0	0	0	4	0	0	0	0	0	0	2	6
8	0	0	0	1	0	0	0	0	0	0	5	6
9	0	0	0	0	0	0	0	0	0	0	2	2
10	0	0	0	1	0	0	0	0	0	0	2	3
12	0	1	0	0	0	0	0	0	0	0	0	1
24	0	1	0	0	0	0	0	0	0	0	0	1
27	0	0	1	0	0	0	0	0	0	0	0	1
28	0	1	0	0	0	0	0	0	0	0	0	1
29	0	10	0	0	0	0	0	0	0	0	0	10
30	0	9	0	0	0	0	0	0	0	0	0	9
31	0	25	0	0	0	0	0	0	0	0	0	25
32	0	33	1	0	0	0	0	0	0	0	1	35
33	0	43	7	0	0	0	0	0	0	0	0	50
34	0	31	0	0	0	0	0	0	0	0	0	31
35	0	29	1	1	2	0	0	0	0	0	0	33
36	0	18	5	1	2	0	0	0	0	0	0	26
37	0	11	7	4	2	0	0	0	0	0	0	24
38	0	6	7	3	5	0	1	0	0	0	0	22
39	0	9	5	2	3	0	1	0	0	0	0	20
40	0	16	3	4	2	0	1	0	0	0	1	27
41	0	17	5	4	7	0	0	0	0	0	0	33
42	0	21	3	1	6	0	1	0	0	0	0	32
43	0	26	5	5	3	0	4	0	0	0	1	44

-Continued-

Appendix K.9 (page 2 of 2)

Length (cm)	Area Group												(Totals)
	21	22	23	24	25	26	27	61	62	63	64		
44	1	25	5	8	5	0	0	1	0	4	0	0	49
45	2	27	6	14	4	0	4	0	0	0	0	0	57
46	2	28	14	13	11	0	6	0	1	0	0	0	75
47	4	43	16	17	14	0	13	1	0	0	0	0	108
48	5	24	16	20	11	0	7	0	1	2	0	0	86
49	5	23	15	24	12	0	13	0	1	0	1	0	94
50	12	19	11	27	17	0	15	0	0	2	0	0	103
51	9	14	12	29	16	1	19	0	0	1	1	1	102
52	4	19	10	33	12	0	19	0	1	1	0	0	99
53	13	11	10	36	9	1	8	0	1	1	0	0	90
54	9	4	14	26	19	1	15	0	2	5	1	1	96
55	12	11	14	28	15	1	13	1	2	5	3	3	105
56	4	3	8	18	11	2	11	0	2	7	3	3	69
57	10	2	8	18	11	2	8	5	2	6	0	0	72
58	5	1	6	16	9	1	6	2	3	4	2	2	55
59	10	6	8	15	7	3	13	0	2	5	3	3	72
60	4	2	7	7	3	1	7	0	9	3	1	1	44
61	6	5	10	6	8	1	7	0	3	9	6	6	61
62	8	4	2	4	8	2	7	0	5	9	3	3	52
63	1	6	3	3	7	4	4	1	4	9	2	2	44
64	3	3	3	8	5	2	4	0	6	7	3	3	44
65	3	1	0	5	2	4	5	3	0	4	8	8	35
66	2	4	2	1	1	2	5	2	3	1	2	2	25
67	4	2	3	4	5	0	5	0	2	8	5	3	38
68	3	2	1	1	7	1	1	0	3	6	1	1	26
69	2	5	0	4	2	1	3	0	1	3	1	1	22
70	1	9	0	1	4	0	7	0	3	8	1	1	34
71	0	4	0	2	1	2	6	0	0	1	2	1	18
72	3	2	0	0	5	0	4	0	0	5	1	1	20
73	2	4	3	0	3	0	5	0	1	3	2	2	23
74	1	5	1	2	4	0	5	0	0	3	0	0	21
75	1	1	1	0	5	0	8	1	0	1	0	0	18
76	2	0	1	1	3	0	4	0	2	2	0	0	15
77	1	3	0	2	2	1	4	0	0	1	0	0	14
78	2	0	1	0	4	0	3	1	0	1	0	0	12
79	1	0	0	0	2	0	4	0	0	1	0	0	8
80	2	0	0	0	2	1	1	0	0	0	1	0	7
81	0	2	0	0	4	0	3	0	0	0	0	0	9
82	2	0	0	0	0	1	3	0	0	0	1	0	7
83	0	2	0	0	1	0	5	0	1	1	0	0	10
84	0	3	0	0	3	0	1	0	0	0	0	0	7
85	0	1	0	1	1	0	1	0	0	1	0	0	5
86	0	0	0	0	3	0	3	0	0	0	0	0	6
87	0	1	0	0	1	0	2	0	0	0	0	0	4
88	0	0	0	0	1	0	1	0	0	0	0	0	2
89	0	0	0	0	0	0	2	0	0	0	0	0	2
91	0	1	0	0	0	0	1	0	0	0	0	0	2
92	0	0	0	0	0	0	1	0	0	0	0	0	1
94	0	0	1	0	1	0	0	0	0	0	0	0	2
95	0	1	0	0	0	0	1	0	0	0	0	0	2
96	0	2	0	0	0	0	0	0	0	0	0	0	2
97	0	0	0	0	0	0	1	0	0	0	0	0	1
	161	642	262	425	313	35	302	18	61	131	67	2417	

21 SANAK ISLAND
 22 MORZHVOI BAY
 23 COLD BAY/BELKOFSKI
 24 PAVLOF BAY/VOLCANO
 25 BEAVER/BALBOA BAY/UNGA STRAIT
 26 STEPONAK BAY
 27 WEST NAGAI
 61 IVANOF BAY
 62 MITROFANIA
 63 CHIGNIK BAY
 64 KUJULIK BAY

Appendix K.10. Pollock lengths (cm) by area from a trawl survey of the Alaska Peninsula area, 1994.

Length (cm)	Area Group												(Totals)
	21	22	23	24	25	26	27	61	62	63	64		
17	0	0	0	0	0	0	0	2	0	0	0	0	2
19	0	0	0	1	0	0	0	2	0	0	0	0	3
22	0	0	0	1	0	0	0	1	0	0	0	0	2
25	0	0	0	0	0	0	0	1	0	0	0	0	1
32	0	2	0	1	0	0	0	1	0	0	0	0	4
33	0	3	0	3	0	0	0	0	0	1	0	0	7
34	0	4	0	5	0	2	0	0	0	1	0	0	12
35	0	0	1	3	0	1	0	0	0	0	0	0	5
36	0	0	1	11	0	0	0	0	0	1	0	0	13
37	0	0	1	14	0	1	0	0	0	1	0	0	17
38	0	1	0	28	1	0	0	0	0	0	0	0	30
39	0	1	1	55	0	2	1	1	0	0	0	0	61
40	0	2	1	48	6	1	2	0	1	2	1	0	64
41	0	7	0	21	4	5	1	0	2	2	0	0	42
42	1	9	1	11	4	4	1	0	2	3	0	0	36
43	2	8	1	10	3	0	4	0	2	5	0	0	35
44	4	9	1	10	7	2	1	0	1	10	0	0	45
45	9	8	2	2	1	1	2	0	0	8	0	0	33
46	10	11	4	9	8	5	3	0	3	5	0	0	58
47	4	10	1	3	4	3	7	0	3	3	0	0	38
48	5	15	1	4	4	2	4	2	2	11	1	0	51
49	6	24	2	4	8	3	3	3	5	17	1	0	76
50	4	12	1	8	7	1	3	1	5	19	0	0	61
51	3	9	3	2	4	11	0	1	7	9	5	5	54
52	3	3	2	3	5	1	2	2	3	12	5	41	
53	2	3	3	2	2	3	1	8	4	18	0	0	46
54	3	6	1	1	10	3	2	3	4	8	4	0	45
55	1	1	0	4	8	3	3	6	2	6	0	0	34
56	3	3	3	3	0	4	2	2	0	4	0	0	24
57	2	5	3	3	1	4	1	3	1	3	2	0	28
58	3	1	1	6	1	4	2	4	1	2	2	0	27
59	2	4	2	3	5	2	0	1	0	3	0	0	22
60	0	3	3	6	2	0	1	1	2	0	0	0	18
61	0	3	2	2	1	2	0	1	0	1	0	0	12
62	0	0	0	3	0	2	0	1	0	0	0	0	6
63	0	0	0	2	1	1	0	0	0	0	0	0	4
64	0	1	0	1	0	0	0	0	2	1	1	0	6
65	0	0	2	0	2	0	0	0	0	0	0	0	6
66	0	1	1	1	0	0	0	0	0	0	0	0	3
67	0	0	0	0	0	0	0	0	0	1	0	0	1
	67	169	45	294	99	75	46	49	51	157	21	1073	

- 21 SANAK ISLAND
- 22 MORZHVOI BAY
- 23 COLD BAY/BELKOFSKI
- 24 PAVLOF BAY/VOLCANO
- 25 BEAVER/BALBOA BAY/UNGA STRAIT
- 26 STEPPOVAK BAY
- 27 WEST NAGAI
- 61 IVANOF BAY
- 62 MITROFANIA
- 63 CHIGNIK BAY
- 64 KUJULIK BAY

Appendix K.11. English, Dover, rex, and butter sole, Alaska plaice, herring, chum salmon, Pacific Ocean perch, dusky and northern rockfish lengths (cms) from a trawl survey of the Alaska Peninsula area, 1994.

Length (cm)	English sole	Dover sole	rex sole	butter sole	Alaska Plaice	herring	chum salmon	Pacific Ocean Perch	dusky rockfish	northern rockfish
	1	2	20	31	67	28	2	13	51	1
17	0	0	0	0	0	0	0	0	3	0
18	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	2	0
24	0	0	1	0	0	0	0	0	0	0
25	0	0	0	0	1	0	0	0	0	0
26	0	0	0	0	0	8	0	0	0	0
27	0	0	0	2	2	7	0	0	0	0
28	0	0	0	2	0	7	0	0	1	0
29	0	0	1	3	3	2	0	0	0	1
30	0	1	1	6	2	2	0	0	1	0
31	0	0	4	6	1	1	0	2	0	0
32	0	0	3	3	2	1	0	2	0	0
33	0	0	1	5	5	0	2	1	1	0
34	0	0	1	0	2	0	0	0	4	0
35	0	0	0	1	2	0	0	0	2	0
36	0	0	1	2	8	0	0	0	6	0
37	0	0	0	0	3	0	0	0	5	0
38	0	0	1	0	6	0	0	0	7	0
39	0	0	0	0	6	0	0	0	3	0
40	1	0	1	0	1	0	0	0	4	0
41	0	0	0	2	6	0	0	0	7	0
42	0	0	0	0	4	0	0	0	3	0
43	0	0	0	0	1	0	0	0	1	0
44	0	0	1	0	2	0	0	0	0	0
45	0	0	0	0	1	0	0	0	0	0
46	0	0	0	0	1	0	0	0	1	0
47	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	1	0	0	0	0	0
49	0	0	0	0	1	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	1	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	2	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	1	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	1	0	0	0	0	0
59	0	0	0	0	1	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0

Appendix L. Numbers of Tanner crab per 1.85 km (1 nautical mile) in 1994 in the Eastern Aleutians Management District with population index by section.

Sta tion	Tow #	Juv	Females	Total	Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
			Adult		<70	70-91	92-114	>114		<165	>164			
AKUTAN BAY														
AKL	141	0	1	1	1	0	0	1	0	0	0	0	2	3
AKG	142	1	1	2	1	7	11	19	3	1	0	4	42	44
AKD	143	0	1	1	1	1	5	15	0	0	0	0	22	23
AKA	144	0	0	0	0	0	0	0	0	0	0	0	0	0
AKC	145	0	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		949	2938	3887	2938	7685	15638	34572	2848	949	0	3798	64630	68518
BEAVER INLET														
BIU	146	0	0	0	0	0	0	0	0	0	0	0	0	0
BIK	147	3	43	46	7	0	15	41	19	0	0	19	82	128
BIN	148	0	0	0	4	0	2	0	0	0	0	0	6	6
BIG	149	22	4	26	16	5	10	8	2	0	0	2	41	67
BIB	150	0	25	25	2	0	4	14	3	1	0	4	24	49
BID	151	18	4	22	11	2	21	6	2	0	0	2	42	64
Pop Est		38944	51619	90563	33995	6696	41034	47663	17028	772	0	17800	147188	237751
UNALASKA/KALEKTA BAY														
UNE	174	2	0	2	2	0	0	0	0	0	0	0	2	4
UND	175	0	1	1	0	0	0	2	0	3	0	3	5	6
UNC	176	1	0	1	1	0	0	0	0	0	0	0	1	2
UNF	177	3	0	3	2	0	0	1	0	0	0	0	3	6
UNJ	178	11	1	12	12	1	0	0	1	0	0	1	14	26
UNI	179	0	0	0	0	0	0	0	0	0	0	0	0	0
UNG	180	1	0	1	1	0	0	0	0	0	0	0	1	3
KAA	181	0	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est		17485	1466	18950	17485	949	0	1982	949	1549	0	2499	22915	41865
MAKUSHIN BAY														
MKP	166	14	16	30	7	9	20	5	0	0	0	0	41	71
MKF	167	2	60	62	5	2	3	6	1	0	0	1	17	79
MKJ	168	15	10	25	5	1	5	2	1	0	0	1	14	39
MKK	169	3	27	30	3	3	37	47	17	1	0	18	108	138
MKN	170	81	9	90	67	1	0	1	0	0	0	0	69	159
MKE	171	6	7	13	8	4	5	8	1	0	0	1	26	39
MKB	172	6	27	33	6	0	3	10	6	0	0	6	24	57

- Continued -

Appendix L. (page 2 of 2).

Station	Tow #	Juv	Females			Sublegal Males				Recruit		Postrecruit		Total Legal	Total Male	Total Crab
			Adult	Total	<70	70-91	92-114	>114	<165	>164	<165	>164				
Makushin (cont.)																
MKC	173	16	1	17	20	1	12	3	1	0	0	1	37	54		
Pop Est	148701	159042	307743	127267	19768	98634	109429	36353	1662	0	38015	393113	700856			
USOF BAY																
USF	152	0	0	0	0	0	1	0	0	0	0	0	1	1		
USG	153	0	0	0	0	0	0	0	0	0	0	0	0	0		
USB	154	0	4	4	2	0	2	8	1	0	0	0	13	17		
USA	155	26	0	26	19	16	7	1	0	0	0	0	42	68		
USC	156	1	0	1	1	0	0	0	0	0	0	0	1	2		
Pop Est	15860	3500	19360	13782	8932	6187	7638	875	0	0	875	37413	56773			
AKUN BAY																
ANA	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AND	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANE	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pop Est	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PUMICESTONE BAY																
PUA	164	24	1	26	14	22	6	0	0	0	0	0	42	68		
PUB	165	2	1	3	4	1	6	1	0	0	0	0	12	15		
Pop Est	6510	909	7419	5748	5366	5220	674	0	0	0	0	0	17008	24427		
CAPE IDAK																
IDK	157	0	1	1	3	4	0	0	0	0	0	0	7	8		
IDG	158	0	0	0	0	0	0	0	0	0	0	0	0	0		
IDH	159	0	0	0	0	2	0	0	0	0	0	0	2	2		
Pop Est	0	949	949	2848	5696	0	0	0	0	0	0	0	8544	9494		
INANUDAK BAY																
INJ	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INF	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INA	162	4	0	4	2	0	0	0	0	0	0	0	2	6		
INB	163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pop Est	3390	0	3390	1695	0	0	0	0	0	0	0	0	1695	5086		
Total	231840	220422	452262	205758	55092	166713	201959	58054	4932	0	62986	692507	1144769			

Appendix M.1 Arrowtooth lengths (cm) by area from a trawl survey
of the Eastern Aleutian area, 1994.

Length (cm)	Area Group							(Totals)
	31	32	33	34	35	38	39	
9	0	0	0	0	0	0	1	1
10	0	0	0	0	0	0	4	4
11	0	0	0	1	0	0	0	1
12	0	0	0	1	0	0	1	2
13	5	0	3	0	0	0	5	13
14	1	0	2	1	0	0	6	10
15	1	0	7	0	0	0	12	20
16	3	0	3	0	2	0	2	10
17	0	0	2	0	2	0	2	6
18	3	0	1	1	4	0	0	9
19	7	0	3	0	0	0	11	21
20	8	2	3	1	5	3	17	39
21	7	1	10	8	5	1	27	59
22	4	0	3	6	3	1	6	23
23	8	0	2	2	10	2	5	29
24	7	1	4	4	9	1	11	37
25	13	0	9	12	11	4	4	53
26	9	0	17	4	7	1	8	46
27	16	0	12	9	7	10	6	60
28	5	1	3	7	11	8	5	40
29	13	0	5	7	2	6	1	34
30	12	2	4	7	4	4	0	33
31	6	2	4	6	2	2	1	23
32	9	1	4	6	7	1	1	29
33	8	2	1	12	4	3	0	30
34	7	1	3	9	3	3	0	26
35	1	2	3	15	5	5	0	31
36	7	4	2	9	3	2	2	29
37	7	1	0	7	1	2	0	18
38	3	2	3	8	3	0	0	19
39	2	3	1	3	3	0	1	13
40	5	2	0	3	0	4	0	14
41	2	1	2	4	2	0	0	11
42	1	1	0	3	4	0	0	9
43	1	3	0	5	3	1	0	13
44	1	4	1	5	5	0	1	17
45	0	1	1	0	4	0	0	6
46	0	4	2	2	4	0	0	12
47	0	3	2	6	5	1	0	17
48	1	3	0	3	1	0	0	8
49	0	3	0	2	3	0	0	8
50	2	2	1	0	1	0	0	6
51	2	2	0	1	3	0	0	8
52	1	0	0	0	2	0	0	3
53	0	3	1	3	3	0	0	10
54	0	2	2	0	0	0	0	4
55	0	2	1	0	2	0	0	5
56	1	2	1	0	1	0	0	5
57	0	5	0	1	4	0	0	10
58	0	2	0	1	2	0	0	5
59	0	0	0	1	0	0	0	1
60	0	3	1	0	0	0	0	4
61	1	1	0	0	3	0	0	5
62	0	1	2	0	0	0	0	3
63	0	1	0	0	3	0	0	4
64	0	2	0	1	0	0	0	3
65	0	1	0	1	0	0	0	2
66	0	1	0	0	1	0	0	2
68	0	0	1	0	0	0	0	1
77	0	0	1	0	0	0	0	1
	190	80	133	188	169	65	140	965

31 AKUTAN/AKUN BAYS

32 BEAVER INLET

33 UNALASKA/KALEKTA BAYS

34 MAKUSHIN/PUMICESTONE BAYS

35 USOF BAY

38 CAPE IDAK

39 INANUDAK BAY

Appendix M.2 Halibut lengths (cm) by area from a trawl survey of the Eastern Aleutian area, 1994.

Length (cm)	Area Group							(Totals)
	31	32	33	34	35	38	39	
34	0	0	0	0	0	0	1	1
36	0	0	0	0	0	0	2	2
37	1	0	0	1	0	0	3	5
39	1	0	0	0	0	0	1	2
40	1	0	0	0	0	0	0	1
41	1	0	0	0	0	0	0	1
42	5	0	0	0	0	0	0	5
43	4	0	0	0	0	0	0	4
44	4	0	1	0	0	0	2	7
45	3	0	2	0	1	0	1	7
46	9	0	2	0	0	0	0	11
47	9	1	0	0	0	0	1	11
48	3	1	1	0	0	0	0	5
49	5	0	0	1	1	0	1	8
50	7	0	2	0	1	2	1	13
51	5	2	2	0	2	0	1	12
52	8	0	2	0	0	0	0	10
53	8	0	2	0	2	0	3	15
54	6	0	0	0	0	0	0	6
55	7	1	2	0	0	0	3	13
56	9	1	0	0	3	3	0	16
57	9	1	4	0	4	0	0	18
58	8	0	2	0	4	1	2	17
59	5	0	1	0	1	2	1	10
60	5	0	2	0	0	1	1	9
61	10	0	0	0	2	2	2	16
62	5	1	0	0	1	0	4	11
63	1	2	0	0	1	2	0	6
64	4	0	2	0	0	1	2	9
65	2	0	0	0	4	1	2	9
66	3	0	0	0	2	1	1	7
67	0	1	0	1	1	1	0	4
68	1	0	1	1	0	1	0	4
69	0	0	1	0	0	0	1	2
70	0	0	0	0	1	0	0	1
71	2	1	0	0	0	2	0	5
72	1	0	0	0	0	1	0	2
73	1	1	0	0	2	1	1	6
74	1	0	2	0	0	1	0	4
75	1	0	0	0	0	1	1	3
76	0	1	0	0	0	1	1	3
77	0	3	2	0	0	0	1	6
78	0	1	0	1	2	0	3	7
81	1	0	0	1	2	0	0	4
82	1	1	3	0	0	1	0	6
83	0	0	0	0	1	0	1	2
84	0	0	0	0	1	0	0	1
86	0	0	1	0	0	0	0	1
87	0	1	0	0	0	0	0	1
88	0	0	1	0	0	0	0	1
91	0	0	0	0	1	2	0	3
92	2	0	0	0	0	2	0	4
93	0	0	1	0	0	0	0	1
94	0	1	2	1	0	0	0	4
95	1	1	0	0	0	0	0	2
106	0	0	0	0	1	0	0	1
107	0	0	0	1	0	0	0	1
108	1	1	0	1	0	0	0	3
109	0	0	0	1	0	0	0	1
110	0	0	1	0	0	0	0	1
115	0	0	0	0	0	1	0	1
116	0	0	0	0	0	1	0	1
	161	23	42	10	41	32	44	353

31 AKUTAN/AKUN BAYS

32 BEAVER INLET

33 UNALASKA/KALEKTA BAYS

34 MAKUSHIN/PUMICESTONE BAYS

35 USOF BAY

38 CAPE IDAK

39 INANUDAK BAY

Appendix M.3 Flathead sole lengths (cm) by area from a trawl survey of the Eastern Aleutians area, 1994.

Length (cm)	Area Group							(Totals)
	31	32	33	34	35	38	39	
≤15	16	4	6	23	38	0	5	92
16	1	1	1	7	4	0	1	15
17	3	1	1	5	4	0	1	15
18	4	4	2	8	9	0	4	31
19	0	3	1	27	4	0	2	37
20	3	2	5	20	2	0	0	32
21	5	2	1	19	12	0	0	39
22	2	2	5	20	13	0	1	43
23	4	1	5	38	12	0	2	62
24	2	6	4	32	9	0	2	55
25	6	4	6	29	11	0	3	59
26	8	6	3	25	9	0	0	51
27	4	6	9	16	5	0	1	41
28	5	4	14	17	6	0	0	46
29	5	8	12	22	3	2	0	52
30	11	5	14	14	3	0	0	47
31	11	8	5	12	3	3	1	43
32	10	7	9	13	2	0	0	41
33	4	9	8	5	2	1	0	29
34	2	5	2	3	2	2	0	16
35	1	4	6	1	1	0	0	13
36	1	6	4	0	1	0	0	12
37	0	4	0	1	1	4	0	10
38	1	2	2	1	0	1	0	7
39	0	0	1	0	0	0	0	1
40	0	2	2	0	0	1	0	5
41	0	0	0	1	0	0	1	2
42	0	0	1	0	0	0	0	1
43	0	0	2	0	0	0	0	2
45	0	0	0	2	0	0	0	2
47	0	0	1	0	0	0	0	1
48	0	0	0	1	0	0	0	1
51	0	0	1	0	0	0	0	1
	109	106	133	362	156	14	24	904

31 AKUTAN/AKUN BAYS
32 BEAVER INLET
33 UNALASKA/KALEKTA BAYS

34 MAKUSHIN/PUMICESTONE BAYS
35 USOF BAY
38 CAPE IDAK

39 INANUDAK BAY

Appendix M.4 Sablefish lengths (cm) by area from a trawl survey of the Eastern Aleutians area, 1994.

Length (cm)	Area Group			(Totals)
	31	32	34	
43	0	0	1	1
45	0	0	1	1
46	0	0	1	1
47	0	0	1	1
55	1	0	0	1
56	1	0	0	1
57	1	0	0	1
59	1	0	0	1
60	2	0	0	2
61	1	0	0	1
62	1	0	0	1
63	2	0	0	2
64	0	1	0	1
67	0	1	0	1
	10	2	4	16

31 AKUTAN/AKUN BAYS
32 BEAVER INLET

34 MAKUSHIN/PUMICESTONE BAYS

Appendix M.5. English, Dover, yellowfin, and butter sole, Atka mackerel, herring, Pacific Ocean perch, rougheye, dusky, and redstripe rockfish lengths (cms) from a trawl survey of the Eastern Aleutians area, 1994.

Length (cm)	English sole	Dover sole	yellowfin sole	butter sole	Atka mackerel	herring	Pacific Ocean Perch	rougheye rockfish	dusky rockfish	redstripe rockfish
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	1	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	1	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0
14	0	0	0	1	0	0	0	0	0	1
15	0	0	0	1	0	0	0	0	0	2
16	0	0	0	1	0	0	0	0	0	4
17	0	0	0	0	0	0	0	0	2	0
18	0	0	0	0	1	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	1
20	0	0	0	2	0	0	0	1	1	3
21	0	0	0	1	0	0	0	4	1	12
22	0	0	0	0	0	0	0	1	1	19
23	0	0	0	0	0	0	0	0	0	10
24	0	0	0	1	0	0	0	1	0	5
25	0	0	1	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	1
27	0	0	0	0	1	0	0	1	0	1
28	0	0	0	1	0	0	0	2	0	4
29	0	0	0	4	0	2	0	6	0	0
30	0	0	0	2	0	2	1	3	0	2
31	0	0	0	5	0	4	0	1	0	5
32	1	0	2	4	0	5	0	2	0	11
33	0	0	2	3	0	4	1	5	0	5
34	1	0	3	6	0	10	0	2	1	9
35	0	0	2	3	0	8	0	1	0	2
36	1	1	2	2	0	5	1	2	1	3
37	1	1	1	0	0	1	1	2	1	0
38	1	0	0	3	0	0	0	2	2	1
39	0	0	0	1	0	0	0	1	0	0
40	0	1	1	0	0	0	0	3	0	0
41	0	0	0	1	0	0	0	6	1	0
42	1	1	1	0	0	0	0	1	0	0
43	0	0	0	0	0	0	0	2	0	0
44	0	0	0	0	1	0	0	0	0	0
45	0	0	0	0	2	0	0	0	0	0
46	0	0	0	1	1	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	1	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0
52	1	0	0	1	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	1	0	0	0

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